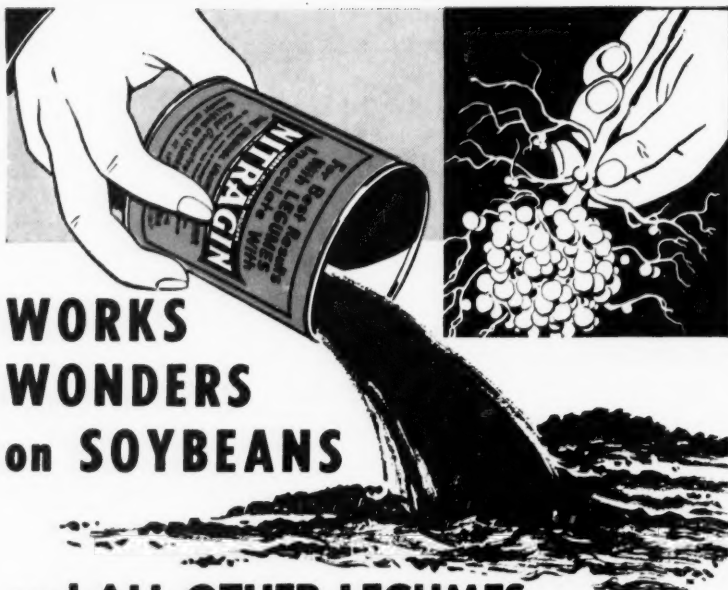


1954

*Soybean*  
**BLUE BOOK**





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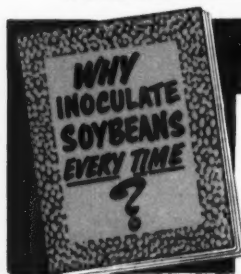
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*The Soybean*

**B L U E**

**B O O K**

*1954*

Published by the  
**AMERICAN SOYBEAN ASSOCIATION**  
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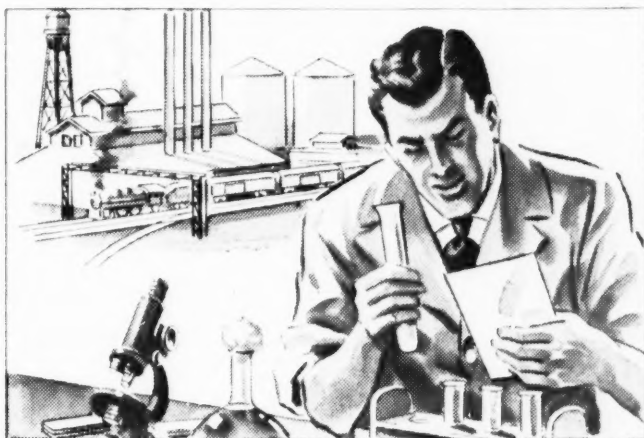
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## AMERICAN SOYBEAN ASSOCIATION

Organized 1920; incorporated February 28, 1946.

Executive office—Hudson, Iowa.

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President—Jake Hartz, Jr., Jacob Hartz Seed Co., Stuttgart, Ark.

Vice President—Albert Dimond, Lovington, Ill.

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Ohio—David G. Wing, Mechanicsburg; John Sawyer, London.

Ontario, Canada—Gilles DePutter, Appin.

### ACTIVITIES

The American Soybean Association is the non-profit organization devoted to the interests of soybean growers and handlers of the nation. Organizational affairs are directed by a board of directors consisting of 15 members chosen by vote from the states where production is heaviest. Board membership is limited to actual producers of soybeans.

### FIGHTS YOUR LEGISLATIVE

**BATTLES.** The American Soybean Association promotes new markets and encourages the expansion of present markets for soybeans and soybean products, counsels with governmental agencies on programs affecting the soybean crop, represents and protects the interests of soybean growers in legislative matters, and sponsors and encourages legislation and appropriations for research work on varieties, diseases, pests, new uses, and on factors limiting or affecting usage of soybean products. Association officers spend large amounts of time representing the interests of soybean growers in Washington and in the state capitals on legislative matters.

**PROMOTES MARKETS** for soybeans and soybean products in the United States and in foreign countries. Constant contacts with export buyers and users serve to encourage and expand export markets for soybeans, soybean oil meal, soybean oil, lecithin and other products. Encouragement and promotion of markets for soybeans and soybean products in industry, human food and in livestock feeding operations are a major project of the Association.

### HOLDS ANNUAL CONVENTIONS

with the nation's outstanding soybean authorities as speakers. Its resolutions adopted there serve as guides for the Association during the year.

### ENCOURAGES YIELD CONTESTS

through which comparisons of growing practices and varieties between counties and states become possible.

### ANSWERS YOUR QUESTIONS.

The executive office of the American Soybean Association at Hudson, Iowa, serves as a clearing house of information for the industry, answering many thousands of questions that come by postcard, letter and telephone each year.

### PUBLICATIONS

The **Soybean Digest** is the only magazine in America devoted to soybeans. Published monthly by the Association it goes to all members of the American Soybean Association. The **Soybean Blue Book** is the annual directory of the industry.

### MEMBERSHIPS

**Active Membership** in the American Soybean Association is open to individuals on payment of annual dues of \$3 and includes subscription to the **Soybean Digest**.

**Associate Membership** is open to business organizations, corporations, partnerships and other agencies interested in the welfare of the soybean industry at a cost of \$10 per year, including one subscription to the **Soybean Digest**.

### ONTARIO ASSOCIATION

**Ontario Soybean Growers' Marketing Board.** George Phillips, Muirkirk, Ontario, chairman; Gilles DePutter, Appin, Ontario, vice chairman; K. A. Standing, Essex, Ontario, full time secretary-field man. Purpose, to regulate marketing and to help with growers' problems.

SOYBEAN BLUE BOOK



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for

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## NATIONAL SOYBEAN PROCESSORS ASSOCIATION

Organized 1930

Address—3818 Board of Trade Building, Chicago 4, Ill.

### OFFICERS

President—R. G. Houghtlin.

Vice President and Chairman of Executive Committee—W. E. Hoge.

Secretary—R. G. Golseth.

Treasurer—H. A. Abbott.

Regular membership in the National Soybean Processors Association is limited to individuals, firms or corporations regularly engaged in the actual processing of soybeans. The Association now has 77 members who regularly process more than 80 percent of the soybeans crushed in the United States.

Recently the constitution of the Association was altered to provide for associate memberships. Firms which are consumers of soybean oil and/or soybean oil meal now are eligible for associate membership. A number of refiners and mixed feed manufacturers are now associate members of the Association.

The Association policy is determined by its board of directors who represent all sections of the processing areas and all types of processing units. The 11 committees of the Association carry on the general activities of the group.

Through this organization, equitable trading rules have been developed which have admirably and fairly served the buyers and sellers of soybean products during the years in which the soybean industry has made such remarkable growth.

The intense research activity fostered by the Association and its members has

played an important part in placing the industry on the high plane which it enjoys today. The promotional efforts of the Association and its members have established a place for soybean products in highly competitive fields. Through this research and promotional activity the products of soybeans have become standard essentials in our food, feed and industrial markets.

In March 1948 the Association launched a national soybean crop improvement program with J. W. Calland of Decatur, Ind., as director.

Since the inauguration of the program, some 250,000 copies of the booklet, Soybean Farming, have been distributed. The publication is now in its third edition. A publication, Soybean News, issued four times a year, is being sent to a mailing list of over 21,000. The latest activity has been the production of a sound color 16-mm movie entitled, Soybeans—the Feature Story. This film runs 27 minutes. It is available from the American Soybean Association, Hudson, Iowa, the university film libraries in the principal soybean producing states and from the Modern Talking Picture Service, Inc., 142 E. Ontario St., Chicago 11, Ill. Soybeans—the Feature Story is now being produced in black and white for use on television stations.

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Organized 1976.

Address: 506 Barr Bldg., Washington 6, D. C.

Chairman—Wilfrid B. Cox.

Treasurer—H. A. Olendorf.

Secretary—Douglas Dies.

Representing American Soybean Association—  
George M. Strayer.

Chairman of Research—Dr. Marvin W. Formo.

Chairman of Nutrition—Dr. C. Kenneth Shuman.

Production Technology—E. A. Buelens.

This Council, which represents the interests of both the manufacturers of soy food products and the growers of soybeans, is primarily interested in scientific research, new product studies, refinement of methods, and developments of new markets.

During the war and postwar periods, this group was the channel through which the industry assisted the government in bringing about public consciousness of the high food value and comparative low cost of soy protein products. With helpful advice from government technologists, standards were adopted.

At government request substantial increases

were made in the industry's productive capacity.

In recent years there has been large usage of soy flour products in various parts of the world. American usage has increased. There has been a growing realization, both in public and in government, that edible soy protein is the key to providing low-cost protein to millions whose diets are dangerously low in proteins.

In the past few years various types of scientific research on soy flour have been or are being carried on, in the following institutions: University of Illinois, Purdue University, University of Minnesota, Kansas State College, Pittsburg University, Midwest Laboratories, U. S. Regional Laboratories, and elsewhere.

This work is far more than matched by the studies conducted in the large laboratories of private companies.

Today soy flour is used in many food articles including:

Bakery products, breakfast foods, candies, chocolate, diabetic foods, health drinks, ice cream cones, ice cream powder, infant foods, macaroni and spaghetti products, meat products, prepared mixes and pet foods.

---

## Waterless Application of Legume Inoculants

Some legume inoculants do not easily mix with seeds and cling to them unless water is added. Observant farmers noticed that the fine, free flowing, humus base of LEGUME-AID quickly coats dry seed. They tried applying it without water and claim successful results.



Many farmers now use LEGUME-AID without first moistening the seed; although printed directions will not be changed until government agronomists approve waterless application. Until then, we suggest that those who wish to try it apply LEGUME-AID without water on only part of their seed and moisten the rest. Then compare results. Be sure to tell your dealer you want LEGUME-AID, famous as "The Inoculant in the Carton."



### AGRICULTURAL LABORATORIES, INC.

1315 Chesapeake Ave.

Columbus 16, Ohio

## OFFICIAL STANDARDS FOR SOYBEANS\*

(U. S. Department of Agriculture,  
effective Sept. 1, 1949)

For the purposes of the official grain standards of the United States for soybeans:

(a) **Soybeans.** Soybeans shall be any grain which consists of 30 percent or more of threshed soybeans and not more than 10.0 percent of other grains. Threshed soybeans shall be whole or broken soybeans which are not removed in the determination of foreign material.

(b) **Classes.** Soybeans shall be divided into the following five classes: yellow soybeans, green soybeans, brown soybeans, black soybeans, and mixed soybeans.

(c) **Yellow soybeans.** Yellow soybeans shall be any soybeans with yellow or green seed coats, which in cross section are yellow or have a yellow tinge, and may include not more than 10.0 percent of soybeans of other classes.

(d) **Green soybeans.** Green soybeans shall be any soybeans with green seed coats which in cross section are green, and may include not more than 10.0 percent of soybeans of other classes.

(e) **Brown soybeans.** Brown soybeans shall be any soybeans with brown seed coats, and may include not more than 10.0 percent of soybeans of other classes.

(f) **Black soybeans.** Black soybeans shall be any soybeans with black seed coats, and may include not more than 10.0 percent of soybeans of other classes.

(g) **Mixed soybeans.** Mixed soybeans shall be any mixture of soybeans which does not meet the requirements for the classes of yellow soybeans, green soybeans, brown soybeans, or black soybeans. Bicolored soybeans shall be classified as mixed soybeans.

(h) **Grades and grade designations.** Grades shall be the numerical grades, sample grades, and special grades provided for in §26.003.

\*The specifications of these standards shall not excuse failure to comply with the provisions of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 301 et seq.).

(i) **Bicolored soybeans.** Bicolored soybeans shall be any soybeans with seed coats of two colors, one of which is black or brown.

(j) **Splits.** Splits shall be pieces of soybeans.

(k) **Damaged kernels.** Damaged kernels shall be soybeans, pieces of soybeans, and kernels and pieces of kernels of other grains which are heat-damaged, sprouted, frosted, badly ground-damaged, badly weather-damaged, moldy, diseased, or otherwise materially damaged.

(l) **Other grains.** Other grains shall be barley, corn, flaxseed, grain sorghums, oats, rye, wheat, buckwheat, Einkorn, emmer, Polish wheat, popcorn, poulard wheat, rice, spelt, sweet corn, and wild oats.

(m) **Foreign material.** Foreign material shall be all matter, including soybeans and pieces of soybeans, which will pass readily through a sieve 0.02 inch thick with round perforations 0.125 (8/64) inch in diameter, and all matter other than soybeans remaining on such sieve after sieving.

(n) **Stones.** Stones shall be concreted earthy or mineral matter and other substances of similar hardness that do not disintegrate readily in water.

§26.001 **Principles governing application of standards.** The following principles shall apply in determination of the classes and grades of soybeans:

(a) **Basis of determination.** Each determination of class, splits, and damaged kernels shall be upon the basis of the grain when free from that part of foreign material which can be removed readily by the use of a sieve 0.02 inch thick with round perforations 0.125 (8/64) inch in diameter. All other determinations shall be upon the basis of the grain as a whole.

(b) **Percentages.** Percentages shall be upon the basis of weight.

(c) **Percentage of moisture.** Percentage of moisture shall be ascertained by the air oven and the method of use thereof described in Service and Regulatory Announcements No. 147.

Grade	Maximum limits of—				
	Minimum test weight per bushel	Moisture	Splits	Damaged kernels (soybeans and other grains)	Foreign material
	Pounds	Percent	Percent	Percent	Percent
No. 1	56	13.0	10	2.0	2.0
No. 2	54	14.0	20	3.0	3.0
No. 3	52	16.0	30	5.0	4.0
No. 4	49	18.0	40	8.0	6.0

Sample grade: Sample grade shall be soybeans which do not meet the requirements for any of the grades from No. 1 to No. 4, inclusive; or which are musty, or sour, or heating; or which have any commercially objectionable foreign odor; or which contain stones; or which are otherwise of distinctly low quality.

<sup>1</sup>The soybeans in grade No. 1 of the class Yellow Soybeans may contain not more than 1.0 percent, in grade No. 2 not more than 2.0 percent, and in grade No. 3 not more than 5.0 percent of Green, Black, Brown, or Bicolored soybeans, either singly or in any combination.

<sup>2</sup>Soybeans which are materially weathered shall not be graded higher than No. 4.

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## STANDARDS FOR SOYBEANS—(Continued)

(revised August 1941) issued by the Agricultural Marketing Service (now Commodity Stabilization Service) of the United States Department of Agriculture, or ascertained by any device and method which give equivalent results.

(d) **Percentage of splits.** The percentage of splits shall be expressed in whole percent and any fraction of a percent shall be disregarded.

(e) **Test weight per bushel.** Test weight per bushel shall be the weight per Winchester bushel, as determined by the testing apparatus and the method of use thereof described in Bulletin No. 1065, dated May 18, 1922, issued by the United States Department of Agriculture, or as determined by any device and method which give equivalent results.

§36.603. **Grade requirements.** The following grade requirements are applicable under these standards:

(a) **Numerical grades, sample grades, and grade requirements for all classes of soybeans.**

(b) **Special grades, special grade require-**

**ments, and special grade designations for all classes of soybeans:**

(1) **Garlicky soybeans.**

(i) **Requirements.** Garlicky soybeans shall be soybeans which contain 5 or more garlic bulbets in 1,000 grams of soybeans.

(ii) **Grade designation.** Garlicky soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not garlicky, and there shall be added to and made a part of the grade designation the word "Garlicky."

(2) **Weevily soybeans.**

(i) **Requirements.** Weevily soybeans shall be soybeans which are infested with live weevils or other live insects injurious to stored grain.

(ii) **Grade designation.** Weevily soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not weevily, and there shall be added to and made a part of the grade designation the word "Weevily."

## SOY FLOUR STANDARDS

	Full-Fat Soy Flour	Low-Fat Soy Flour	Defatted Soy Flour
Protein (Nx6.25)*	40.0% Min.	45.0% Min.	50.0% Min.
Protein (Nx5.7)*	36.5% Min.	41.0% Min.	45.0% Min.
Fat (Ether Extract)*	18.0% Min.	4.5% Min. 9.0% Max.	2.0% Max.
Fibre*	3.0% Max.	3.3% Max.	3.5% Max.
Moisture	8.0% Max.	8.0% Max.	8.0% Max.
Ash*	5.5% Max.	6.5% Max.	6.5% Max.

Screen—97% through No. 100 U. S. Standard Screen for each of the above.

\*Moisture free basis.

Approved and adopted by the Soya Food Research Council.

### DEFINITION

The products shall be processed from high quality, sound, clean, dehulled yellow soybeans as defined in the United States Grain Standards Act. The soybeans shall be subjected to a thorough initial cleaning operation that shall substantially remove all foreign material. Disagreeable flavors and odors shall be removed

by subjecting the soy material to adequate processing.

Soy flour shall be prepared and packaged under modern sanitary conditions.

The soy flour shall be free from burnt, musty, rancid or other undesirable flavors or odors; free from burnt, scorched, or grayish color; and free from insects, insect webbing, dirt or other extraneous matter.

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## U. S. DEPARTMENT OF AGRICULTURE

USDA agencies with relationship to soybeans. (Washington 25, D. C., unless otherwise noted.)

### PRODUCTION RESEARCH

#### AGRONOMIC RESEARCH

**Bureau of Plant Industry, Soils and Agricultural Engineering.** Division of Forage Crops and Diseases, Herbert W. Johnson, Beltsville, Md.; Jim P. Trimble and George H. Abel, Jr., Southwestern Irrigated Field Station, Brawley, California.

The agronomic research of the soybean project in this division consists of fundamental and applied research of regional scope and is cooperative with 26 state agricultural experiment stations. Fundamental research includes determination of basic principles in soybean genetics, plant breeding, physiology, and cultural practices. Applied research includes development of varieties with superior agronomic and compositional characters and determination of cultural practices that will give optimum production in all regions of potential soybean production in the U. S.

**U. S. Regional Soybean Laboratory, 205 Davenport Hall, Urbana, Ill.** J. L. Cartter.

Staff: Floyd I. Collins, chemist; Orlando A. Kriber, chemist; Robert W. Howell, physiologist; Robert D. Osler, breeder; Carolyn Younger, secretary.

#### FIELD

\*\*Bashaw, Elexis C., Agricultural Experiment Station, College Station, Tex.

Brim, Charles A., Dept. of Agronomy, N. C. State College, Raleigh, N. C.

\*\*Brown, Otto, Gulf Coast Substation, Fairhope, Ala.

\*Franzke, Clifford J., Agricultural Experiment Station, Brookings, S. Dak.

\*\*Gibson, P. G., Agricultural Experiment Station, Auburn, Ala.

\*\*Gore, Ulys R., Agricultural Experiment Station, Experiment, Ga.

\*\*Gray, John P., Agricultural Experiment Station, Baton Rouge, La.

\*\*Hanway, Donald G., Agricultural Experiment Station, Lincoln, L. Nebr.

Hartwig, Edgar E., coordinator for Southern states, Delta Experiment Station, Stoneville, Miss.

\*\*Kramer, Herbert H., Agricultural Experiment Station, Lafayette, Ind.

\*\*Lambert, Jean W., Agricultural Experiment Station, University Farm, St. Paul 8, Minn.

Leffel, Robert C., Agricultural Experiment Station, College Park, Md.

\*\*Matlock, Ralph S., Agricultural Experiment Station, Stillwater, Okla.

\*\*O'Kelly, J. Fred, Agricultural Experiment Station, State College, Miss.

\*\*Paden, William R., Agricultural Experiment Station, Clemson, S. C.

\*\*Pettigrove, Herbert R., Agricultural Experiment Station, East Lansing, Mich.

Probst, Albert H., Agricultural Experiment Station, Lafayette, Ind.

\*\*Sahoe, Lewis C., Dept. of Agronomy, Ohio State University, Columbus, Ohio.

\*\*Skold, L. N., Agricultural Experiment Station, Knoxville, Tenn.

\*\*Smith, Paul E., Agricultural Experiment Station, Fayetteville, Ark.

\*\*Smith, R. L. N., Florida Agricultural Experiment Station, Quincy, Florida.

\*\*Smith, T. J., Agricultural Experiment Station, Blacksburg, Va.

\*Stephens, James L., Coastal Plain Experiment Station, Tifton, Ga.

\*\*Stoa, Theodore E., Agricultural Experiment Station, Fargo, N. Dak.

\*\*Torrie, James H., Dept. of Agronomy, University of Wisconsin, Madison 6, Wis.

Weber, Charles R., Agronomy Bldg., Iowa State College, Ames, Iowa.

Williams, Leonard F., Agricultural Experiment Station, Columbia, Mo.

\*\*Zahmley, J. W., Dept. of Agronomy, Agricultural Experiment Station, Manhattan, Kans.

#### DISEASE RESEARCH

**Bureau of Plant Industry, Soils and Agricultural Engineering, Beltsville, Md.:** Division of Forage Crops and Diseases, K. W. Krentlow, Herbert W. Johnson, H. S. Yu.

The disease research of the soybean project in this division consists of fundamental research on disease organisms attacking soybeans and plant organism relationships and applied research on disease control measures and determination of genetic resistance of varieties and strains to diseases.

#### FIELD

\*\*Athow, Kirk L., Agricultural Experiment Station, Lafayette, Ind.

Chamberlain, Donald W., Regional Soybean Laboratory, Urbana, Ill.

\*\*\*Dunleavy, John, Agricultural Experiment Station, Ames, Iowa.

\*\*Kernkamp, M. F., University Farm, University of Minnesota, St. Paul 1, Minn.

Kilpatrick, R. A., Delta Branch Experiment Station, Stoneville, Miss.

\*\*Lehman, S. G., Skotland, C. B., Agricultural Experiment Station, Raleigh, N. C.

\*\*Michaelson, M. E., Agricultural Experiment Station, Columbia, Mo.

\*\*Stroube, William H., Agricultural Experiment Station, Baton Rouge, La.

#### ENTOMOLOGICAL RESEARCH

**Bureau of Entomology and Plant Quarantine:** Division of Cereal and Forage Insect Investigations.

\*Part time with Soybean Laboratory.

\*\*Collaborator without pay.

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## U. S. DEPARTMENT OF AGRICULTURE—(Continued)

### UTILIZATION RESEARCH

**Bureau of Agricultural and Industrial Chemistry:**

**Northern Regional Research Laboratory, Peoria 5, Ill.,** R. T. Milner, director; H. E. Roehr, assistant to the director.

**Oil and Protein Division—Dr. J. C. Cowan,** head.

Investigations are conducted on both the fundamental and practical aspects of the flavor stability of the oil, on the modification of soybean oil, meals, flour and protein for foods, and protective coatings and other industrial uses.

**Fermentation Division—Dr. R. W. Jackson,** head.

The soybean research of this division includes evaluations of soybean products and byproducts as nutritional supplements for microorganisms utilized in fermentation processes. The division also has done considerable work on soya sauce.

**Engineering and Development Division—Dr. C. T. Langford,** head.

The soybean research of this division is conducted on a pilot plant scale in its oilseed section. The work at present covers improvements in the refining of soybean oil for edible purposes, and the development of a margarine-like spread suitable for use in military rations in both cold and hot climates.

**Southern Regional Research Laboratory, New Orleans, La.,** C. H. Fisher, director.

**Bureau of Animal Industry:** Animal Husbandry Division, Beltsville, Md.

**Bureau of Dairy Industry:** Division of Nutrition and Physiology, Beltsville, Md.

**Bureau of Human Nutrition and Home Economics:** Food and Nutrition Division, Beltsville, Md.

### MARKETING RESEARCH

**Agricultural Marketing Service—O. V. Wells,** administrator, U. S. Warehouse Act, Marketing Services (Roy Lennartson). Marketing Research and Statistics (old RAE—F. F. Elliott). Grain Division (E. J. Murphy)—inspection branch, Washington; market news branch, Washington; seed branch, Beltsville; standardization and testing branch, Beltsville. Agricultural Economics Division (Frederick V. Waugh)—statistical and historical research branch (Karl A. Fox). Agricultural Estimates Division (crop reporting board—Sterling R. Newell). Marketing Research Division (Harry C. Trelogan)—market development branch (R. M. Walsh); transportation and facilities branch (W. C. Crow).

**Foreign Agriculture Service — Clayton E. Whipple,** acting director. Assistant for foreign service and trade programs (Fred J. Rossiter). Assistant for market development (Gustave Burmeister); director Grain and Feed Division (E. J. Bell); director Fats and Oils Division (Paul E. Quintus, acting).

**Commodity Stabilization Service (old PMA)—James McConnell,** administrator. Deputy for price support (Preston Richards); deputy for production adjustment (H. L. Manwaring). Grain Division (Marvin L. McLain); Oils and Peanut Division (George A. Parks, Jr., acting); Price Division (J. Murray Thompson); Transportation and Warehousing Division (M. J. Hudloff).

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# TERMINOLOGY

## Definitions and Product Descriptions for the Soybean Industry

**SOYBEAN**—The soybean is a legume the botanical name of which is *Glycine max* (L.) Merrill. It has been grown since prehistoric times in China and was first introduced into the United States early in the 19th century. The term "soybean" has been accepted as standard in the U. S. in preference to Oriental and other forms such as: soya bean, soy bean, soyabean and soja bean. It is incorrect to use the word "beans" when referring to soybeans.

**SOYBEAN PROCESSOR**—A man or firm who makes a business of removing oil from soybeans. The word "processor" has been adopted by the industry in preference to older terms applied to various branches of the vegetable oil milling industry, such as crushers, pressers and millers.

**PROCESSES**—Three processes are employed in the U. S. in removing soybean oil from soybeans. They are:

1. **Screw Press Process**—A continuous pressing process, at elevated temperatures, which utilizes a worm shaft continuously rotating within a pressing cylinder or cage to express the oil from soybeans after they have been crushed and properly dried. The term "Expeller" is copyrighted by the V. D. Anderson Co. of Cleveland, Ohio, as applying to the particular type of mechanical screw press which they manufacture. Therefore it is technically incorrect to refer to all screw presses as "Expellers" and to all screw press products as "expeller" products. The French Oil Mill Machinery Co. of Piqua, Ohio, calls their screw press the mechanical screw press.

2. **Solvent Extraction Process**—A process whereby flaked soybeans are leached or extracted with hexane or homologous hydrocarbon solvents to remove the oil. Ninety-five to ninety-eight percent of the oil in the soybeans is recovered by this process whereas the screw press and the hydraulic processes remove about 75 to 80 percent. The products are known in the trade as solvent extracted products; for example, solvent extracted soybean oil and solvent extracted soybean oil meal.

3. **Hydraulic Process**—An intermittent pressing operation carried out at elevated temperatures in a hydraulic press after the beans have been rolled into flakes and cooked. It is the oldest process employed in the vegetable oil milling industry. It is often referred to as the "old process" and its products such as oil cake and oil meal are often referred to as "old process" products.

**SOYBEAN OIL**—There are several types of soybean oil which might be broadly classified as follows:

1. **Crude Raw Soybean Oil**—This is sometimes incorrectly referred to as crude soybean oil. This product is the unrefined crude oil of any one of the three processes. It is customary to filter and/or settle the oil after it has come from the process, as the standard trade specifications exact this procedure.

There are three types of crude raw soybean oil:

Crude solvent extracted soybean oil.

Crude screw press soybean oil.

Crude hydraulic pressed soybean oil.

2. **Edible Refined Soybean Oil**—This is soybean oil which has been subjected to special refined treatment for use in food products.

While there are some innovations being introduced the conventional refining procedure for producing edible refined soybean oil is carried out in four steps. They are alkali refining, bleaching, winterizing and deodorizing. Edible refined soybean oils are further classified as salad oils and cooking oils, and are also used in the manufacture of a variety of mayonnaise, relish and sandwich spreads.

3. **Hydrogenated Soybean Oil**—This is a refined soybean oil which has been subjected to hydrogenation. This results in changing the liquid oil to a plastic semi-solid fat. Hydrogenated soybean oil is used in both the edible and technical fields.

4. **Technical Refined Soybean Oil for the technical trade**—There are a wide variety of oils in this group involving individual or combined processes which according to trade usage or technical requirements may be broadly classified as follows:

- a. Water washed.
- b. Centrifuged, clarified or degummed.
- c. Acid refined.
- d. Alkali refined.
- e. Bleached.
- f. Kettle bodied or polymerized.
- g. Air blown or oxidized.
- h. Sulfonated.
- i. Chlorinated.
- j. Catalytic refined.
- k. Solvent refined: 1. Pittsburgh Plate Glass Co. patented process; 2. M. W. Kellogg Co. patented process (Solexol).
- l. Molecular distilled (Distillation Products Inc. patented process).

**SOYBEAN FATTY ACIDS**—When the glycerine in soybean oil is split off by any method of hydrolysis, fatty acids are obtained which may be classified as follows according to the subsequent treatment to which they have been subjected:

1. Crude mixed soybean fatty acids.
2. Distilled soybean fatty acids.
3. Fractionally distilled soybean fatty acids (Armour & Co. patented process).
4. Solvent fractionated soybean fatty acids.
5. Low temperature crystallized soybean fatty acids.

**SOYBEAN SOAP STOCKS**—Soap stock is the byproduct that results from the alkali refining of soybean oil.

1. Soybean soap stock—contract grade should contain not less than 30% total fatty acid.
2. Acidulated soybean soap stock—contract grade should contain not less than 85% total fatty acid.

**SOYBEAN LECITHIN**—Soybean lecithin as offered to the trade is actually a mixture of lipid materials and consists of lecithin, cephalin, and inositol phosphatides together with glycerides and traces of tocopherols, glucosides and pigments.

The mixture is usually obtained from crude extracted soybean oil by what is known as a degumming process. The carefully filtered crude oil is agitated with hot water and the hydrated and emulsified phosphatides are separated by a centrifuge. The emulsion is then dehydrated by heat and vacuum. The emulsion may also be subjected to additional treatments to produce the commercial grades to which the following descriptive terms may be applied:



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### TERMINOLOGY—(Continued)

Plastic or firm consistency; soft consistency; fluid, unbleached; bleached; and double bleached.

The two types of lecithin as recognized by the trade are:

1. **Crude Soybean Lecithin**—All grades of soybean lecithin obtained by the above or similar processing methods may be listed as crude soybean lecithins for such purposes as freight tariff classification.

2. **Refined Lecithin**—Refined lecithins are obtained by drying phosphatide mixtures and washing them with acetone to remove any oil or fatty acids originally included in the mixture. The acetone washed product may be finished for sale in two forms, namely:

a. Dry, oil free lecithin.

b. Lecithin with another oil or fat substituted as a carrier in place of the oil originally found in the phosphatide mixture, e.g., lecithin with cocoa butter carrier.

**BREAK MATERIAL**—The material that separates from crude oil when it is heated to 530° F. It is mainly phosphatides and multiaxigenous materials and their decomposition products.

**SLUDGE**—Sludge is the solid residue which cannot be pumped or squeezed from the car or tank.

**SOYBEAN FEEDS**—Standard definitions adopted by the American Feed Control Officials, Inc., and the National Soybean Processors Association, with some modifications and revisions.

1. **Ground Soybeans**—The product obtained by grinding whole soybeans without cooking or removing any of the oil. (This product is sometimes erroneously called soybean meal, thus confusing it with soybean oil meal.)

2. **Soybean Oil Cake, Soybean Oil Chips, or Soybean Flakes**—The product obtained from soybeans after removal of part of the oil by pressure of solvents. A name descriptive of the process of manufacture, such as screw press, hydraulic, or solvent extracted, shall be used as a part of the brand name. It shall be designated and sold according to its protein content.

3. **Soybean Oil Meal**—Soybean oil cake, soybean oil chips, or soybean flakes that have been ground. A name descriptive of the process of manufacture, such as screw press, hydraulic, or solvent extracted, shall be used in the brand name. It shall be designated and sold according to its protein content.

4. **Screw Press Soybean Oil Chips**—The product obtained after expressing part of the oil from soybeans by crushing, cooking and mechanical pressure using a screw press, or any other mechanical press. It shall be designated and sold according to its protein content.

5. **Screw Press Soybean Oil Meal**—The product obtained by grinding screw press soybean oil chips. It shall be designated and sold according to its protein content.

6. **Hydraulic Soybean Oil Cake**—The product obtained after expressing part of the oil from soybeans by crushing, cooking, and hydraulic pressure. It shall be designated and sold according to its protein content.

7. **Hydraulic Soybean Oil Meal**—The product obtained by grinding hydraulic soybean oil cake. It shall be designated and sold according to its protein content.

8. **Solvent Extracted Soybean Flakes**—The product obtained after extracting most of the oil

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## TERMINOLOGY—(Continued)

from soybeans by cracking, heating, flaking and the use of solvents. After extraction of the oil the product is cooked. It shall be designated and sold according to its protein content.

9. **Solvent Extracted Soybean Oil Meal**—The product obtained by grinding the cooked solvent extracted soybean flakes. It shall be designated and sold according to its protein content.

10. **Soybean Mill Feed**—The byproduct resulting from the manufacture of soybean flour or grits and is composed of soybean hulls and the oil from the tail of the mill.

11. **Soybean Hulls**—The product consisting of the outer covering of the soybean.

12. **Solvent Extracted Soybean Feed**—The material obtained as a residue after the partial removal of protein and nitrogen free extract from solvent extracted soybean flakes or solvent extracted soybean oil meal. It shall be designated and sold according to its protein content.

13. **Dehulled Solvent Extracted Soybean Flakes**—The products obtained after extracting most of the oil from dehulled soybeans by cracking, heating, flaking and the use of solvents. After extraction of the oil the product is cooked. It shall contain not more than 3 percent crude fiber and shall be designated and sold according to its protein content.

14. **Dehulled Solvent Extracted Soybean Oil Meal**—The product resulting from grinding and carefully grading the cooked dehulled solvent extracted soybean flakes. It shall contain not more than 3 percent crude fiber and shall be designated and sold according to its protein content.

15. **Soybean Cubes or Pellets**—Soybean oil meal which has been processed through a cubing or pelleting machine. The product shall be firm but not flinty, of sweet odor and free from mold. It must be designated and sold according to its protein content and its name must include one of the terms "hydraulic," "expeller," or "solvent extracted" to specify the method of manufacture of the source material.

**FEEDS**—Standard specifications of the National Soybean Processors Association.

1. **Soybean Chips, Soybean Oil Cake, and 41% Protein Soybean Oil Meal**—Produced by cooking ground soybeans and reducing the oil content of the cooked product by pressure to 6% or less on a commercial basis. Standard specifications are as follows:

Protein	Minimum	41.0%
Fat	Minimum	3.5%
Fiber	Maximum	7.0%
N F E	Minimum	27.0%
Moisture (when shipped by seller)	Maximum	12.0%

2. **Soybean Flakes and 44% Protein Soybean Oil Meal**—Produced by conditioning ground soybeans and reducing the oil content of the conditioned product by the use of solvents to 1% or less on a commercial basis. Standard specifications are as follows:

Protein	Minimum	44.0%
Fat	Minimum	6.3%
Fiber	Maximum	7.0%
N F E	Minimum	27.0%
Moisture (when shipped by seller)	Maximum	12.0%

**SOY FLOUR**—There are three types of soy flour, as follows:

1. **Full-Fat Soy Flour**—As it is not processed for oil extraction, it contains all of the fat originally found in the soybean, or over 30%. Higher in calorie content than the low-fat or defatted types.

2. **Low-Fat Soy Flour**—Made by a continuous mechanical pressing method in which the greater part of the oil is removed.

3. **Defatted Soy Flour**—Made by solvent extraction process. Contains less than 2% fat. Protein content of this type ranges up to 53%.

**SOY FLAKES**—Produced by the solvent extraction process. The particle size can be varied within production limits to meet specifications and trade demands.

**SOY MEATS AND GRITS**—Meats correspond to full-fat soy flour and grits to low-fat flour or defatted flour, except that they are coarsely, not finely ground.

### SOYBEAN PROTEINS

1. **Soybean Protein Flakes**—Full fiber soybean flakes freed of oil by solvent extraction and dried by processes which denature the protein to a minimum extent so that a high percentage of it remains soluble or dispersible in water. The flakes are usually ground to fine particle size before being used.

2. **Mechanically Refined Soybean Protein Flakes**—Flakes processed in the same manner as soybean protein flakes except that hulls are removed and the fiber content reduced by mechanical means.

3. **Isolated Soybean Protein**—Obtained by treating soybean protein flakes chemically so as to remove cellulose, sugar and other non-protein ingredients. Used in water emulsion paints and paper coatings.

4. **Soy Albumins**—Water dispersible soybean protein modified for use in whipping compounds or as aerating agents. Used in meringues, marshmallows and other confections.

5. **Gelsoy**—Developed by the Northern Regional Research Laboratory. Obtained by washing soybean protein flakes with alcohol and extracting the protein with water. Besides having good whipping characteristics Gelsoy forms gels which are irreversible after being heated.

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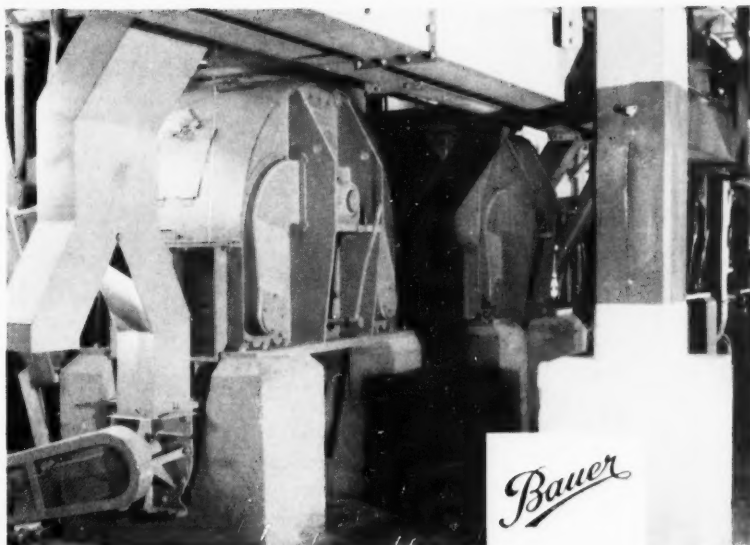
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Construction of the mill is extremely heavy and rugged to stand up and take the abrasion a meal grinder gets.

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sten carbide tipped. And you can get double the life of the hammers through using both edges, by simply reversing the rotation of the mill. Hammers do not have to be turned.

Because the mill operates at relatively low speed, materials are reduced to granules instead of being whipped to powder. And the little dust created is kept inside the mill by return ducts which recirculate the air. This is an advantage in installations that do not employ pneumatic collecting systems.

You can get all the specifications and data from us. Write, wire, or phone.

**THE BAUER BROS. CO.**

**1744 Sheridan Ave.**

**Springfield, Ohio**



## WEIGHTS AND MEASURES

### SOYBEANS

1 bu. 60 lbs. (legal weight)  
(Minimum test weight 56 lbs.)  
1 cu. ft. 45 lbs.  
(Figured at 56 lbs. test weight)

### SOYBEAN OIL

1 cu. ft. 56.81 to 57.97 lbs.

Figures supplied by different processors of soybeans. Density of soybean oil varies slightly with different lots and considerably with temperature. It is reported to range from 0.922 to 0.934 gram per cc. at 49° F., and from 0.915 to 0.920 at 77° F.

One firm reports the following pound-per-cubic-foot weights of soybean oil at various temperatures:

60° F.	57.62
70° F.	57.39
100° F.	56.73

Another supplies the following figures:

1 gal. at 69° F. (average)	7.695 lbs.
Specific heat at 185° F.	0.579 cal./gm.
Viscosity at 25° C.	51.0 centipoises
Coefficient of expansion (approx.)	.0008

### SOYBEAN LECITHIN

1 cu. ft. 65.82 lbs.

### SOYBEAN OIL MEAL

Expeller, 41%  
1 cu. ft. 38 lbs.

Solvent-Extracted, 44%

1 cu. ft. 36 to 38 lbs.

Above figures are given by most processors queried. However one processor lists both 41% and 44% soybean oil meal as weighing 41.2 pounds per cubic foot. Meals of higher protein content generally weigh above 40 pounds per cubic foot. Bulk density of soybean oil meals varies according to particle size and moisture content, percentage of hulls, amount of vibration to which container is subjected during filling, temperature, granulation and age of sample.

One processor supplies the following figures:

Fresh production 110° F.	38.3 lbs. per cu. ft.
After quick cooling to 80° F.	40.7 lbs.
After 24 hrs. cooling to 45° F.	41.5 lbs.

### SOYBEAN PELLETS

44%, 14 in. to 3 in.

1 cu. ft.	41.12 lbs.
1 cu. ft. 44%, 1 in.	38.55 lbs.

### SOY FLOUR, DEFATTED

1 cu. ft. 39.84 lbs.

Figures for soybean pellets and soy flour are from one processor only.

**Have You Any Problems Testing and Regulating  
Fully Automatically Moisture Content  
in Your Products?**

**HYGROTESTER CAN HELP YOU**

**. . . In Any Case**

*More than 800 units delivered so far by our parent-firm for testing and/or regulating moisture in all kinds of oil seeds. Used also for measuring and fully automatic control of moistening process in press — or extraction residues.*

**Absolute Indication In % H<sub>2</sub>O, Measuring Accuracy Warranted.**

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OPERATOR,**

**DON'T LET  
THESE BEANS**

*Spoil!*

**He Can't  
With A . . .**

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*Guaranteed Grain Temperature Measuring System*

TEMPERATURE POINTS EVERY SIX-FOOT LEVEL

***Detects*** Moisture Pockets - Dirt - Chaff - Insects ***Hot Spots***

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**INCREASES STORAGE CAPACITY**

**CUTS OPERATING EXPENSES**

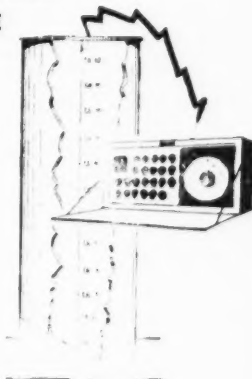
**PREVENTS SPOILAGE**

### **TEMPERATURE CABLES:**

Rugged, flexible nylon-covered cables. Moisture-proof — Accurately, quickly seeks out temperature changes.

### **TEMPERATURE INDICATOR:**

Best available — MINNEAPOLIS-HONEYWELL potentiometer exclusively designed for our system.



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**HOT SPOT DETECTOR, INC.**

**426 Keo Way**



**Des Moines, Iowa**

**FOR COMPLETE DETAILS**

# SOYBEAN PRODUCTION—UNITED STATES

SOYBEANS: ACREAGE, YIELD AND PRODUCTION IN THE UNITED STATES, 1924-53

Year	Acres Planted—			Acres For Beans†	Harv.— For Hay	Grazed or Plowed Under	Average Yield		Total For Beans Thous.	Prod. For Hay Thous.
	Grown Alone	Inter- planted*	Equivalent Solid‡				Per Acre For Beans	Harv. For Hay		
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
1924	1567	417	1782	448	1147	187	11.9	1.13	4947	1299
25	1539	476	1785	415	1175	195	11.7	1.01	4875	1185
26	1871	502	2127	466	1431	230	11.2	1.18	5239	1687
27	2057	571	2350	568	1556	226	12.2	1.18	6938	1837
28	2154	556	249	579	1609	251	13.6	1.23	7980	1974
29	2429	743	2807	708	1774	325	13.3	1.16	9438	2051
1930	3072	786	3473	1674	2062	337	13.0	.94	11929	1938
31	3835	909	4304	1141	2772	391	15.1	1.26	17260	3479
32	3704	893	4165	1001	2738	426	15.1	1.25	15158	3433
33	3537	813	3957	1044	2506	407	12.9	1.16	13509	2917
34	5764	838	6207	1556	4237	424	14.9	1.08	21357	4545
35	6966	1028	7503	2915	4044	534	16.8	1.34	48901	5422
36	6127	2115	7183	2359	3116	1708	14.3	.96	37221	3002
37	6332	2561	7464	2586	3469	1409	17.9	1.36	46164	4731
38	7318	2541	8387	3035	3724	1828	20.4	1.43	61906	5335
39	9565	2710	10920	4315	4590	2015	20.9	1.48	90141	6772
1940	10487	2589	11782	4807	4819	2156	16.2	1.34	78045	6450
41	10668	2553	11345	5889	3546	1910	18.2	1.30	107197	4616
42	13696	2426	14912	9894	2621	2397	19.0	1.36	187524	3555
43	14191	2475	15428	10397	3177	1854	18.3	1.21	190133	3837
44	13118	1861	14059	10245	2577	1228	18.8	1.18	192121	3640
45	13056	1505	13807	10740	1940	1127	18.0	1.26	193167	2451
46	11706	1458	12434	9932	1499	1001	20.5	1.28	203395	1912
47	11952	1408	13755	11411	1392	1052	16.3	1.22	186435	1574
48	11987	1259	13617	10682	1211	824	21.3	1.30	227217	1446
49	11072	1165	12456	10482	1130	844	22.3	1.32	231994	1488
1950	15129	1238	15744	13814	1047	883	21.7	*1.31	299279	1367
51	15190	1088	15715	13545	973	1217	20.9	1.25	282477	1216
52	15927	984	16420	14338	1191	891	20.8	1.10	298952	1310
53§	16085	851	16510	14366	1737	960	19.7	1.09	262341	1292

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

SOYBEANS: ACREAGE, YIELD AND PRODUCTION IN THE U. S., BY STATES, 1953\*

State	Acres Planted—			Acres For Beans†	Harv. For Hay	Grazed or Plowed Under	Average Yield		Total For Beans Thous.	Prod. For Hay Thous.
	Grown Alone	Inter- planted*	Equivalent Solid‡				Per Acre For Beans	Harv. For Hay		
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
N. Y.	7	—	7	5	—	2	16.0	—	80	—
N. J.	41	—	41	27	5	9	18.0	1.50	486	8
Pa.	37	—	37	19	13	5	17.0	1.60	523	21
Ohio	1064	—	1064	1036	18	10	20.5	1.45	21238	26
Ind.	1853	—	1853	1755	74	24	21.0	1.25	26855	92
Ill.	2907	—	2907	3751	117	39	20.5	1.10	76896	129
Mich.	118	—	118	110	2	6	19.0	1.40	2090	3
Wis.	70	—	70	56	10	4	14.5	1.65	812	16
Minn.	1400	—	1400	1351	7	42	20.5	1.30	27696	9
Iowa	1617	—	1617	1597	10	10	21.5	1.50	34376	15
Mo.	1963	40	1983	1824	99	60	14.0	1.00	25576	99
N. Dak.	23	—	23	23	—	—	13.5	—	310	—
S. Dak.	90	—	90	87	—	3	18.0	—	1566	—
Nebr.	108	—	108	105	—	3	18.5	—	1942	—
Kans.	598	—	598	496	48	54	8.0	.90	3968	43
Del.	72	—	72	64	6	2	16.5	1.25	1056	8
Md.	115	—	115	95	18	2	19.0	1.45	1805	26
Va.	231	—	231	167	82	41	16.0	1.10	2672	57
W. Va.	9	—	9	8	—	1	—	1.50	—	12
N. C.	397	138	466	263	136	67	14.5	1.00	3814	136
S. C.	150	100	200	130	28	42	11.0	.95	1430	27
Ga.	100	74	137	50	39	48	12.0	1.00	600	39
Fla.	17	—	17	12	—	5	18.0	—	216	—
Ky.	200	14	207	96	91	20	13.0	1.30	1248	118
Tenn.	258	100	308	150	95	63	13.5	1.20	3025	114
Ala.	149	6	152	92	53	7	30.5	.90	1886	48
Miss.	494	50	519	250	130	149	12.0	1.05	3000	136
N. Ark.	800	62	831	665	108	58	11.0	.85	7315	92
La.	117	209	221	40	11	170	16.0	1.15	640	13
Okla.	75	—	75	50	15	10	10.0	.95	500	14
Texas	5	—	5	—	1	4	—	.90	—	1
U. S.	16085	851	16510	14366	1184	960	18.3	1.09	262341	1292

\*Preliminary. \*\*Grown with other crops. †Acreage grown alone, plus one-half the interplanted acreage. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: SUPPLY AND UTILIZATION IN THE UNITED STATES, 1924-1953

Year Beginning Oct. 1	Supply				Utilization					Carry- over Sept. 30, 7*
	Total Stocks Oct. 1*	Produc- tion**	Imports for Con- sump- tion	Total Supply†	Seed	Feed‡	Processed for Oil and Meal	Exports§	Other Uses¶	
1,000 BUSHELS										
1924-25	5	4,947	60	5,012	1,900	1,207	307		1,596	2
1925-26	2	4,875	71	4,948	2,289	1,174	351		1,114	8*
1926-27	8*	5,239	67	5,306	2,525	1,311	335		1,133	2
1927-28	2	6,938	70	7,010	2,687	1,601	559		2,133	8*
1928-29	8*	7,880	77	7,957	2,984	1,473	882		2,548	70
1929-30	70	9,438	64	9,522	3,762	1,730	1,066		2,998	116
1930-31	116	13,929	54	14,099	4,724	2,763	4,069		2,049	494
1931-32	494	17,260	49	17,803	4,633	2,867	4,725	2,161	3,295	122
1932-33	122	15,158	13	15,293	4,490	2,364	3,470	2,450	2,861	58
1933-34	58	13,509	6	13,573	7,615	2,111	3,054		767	26
1934-35	26	23,157	5	23,188	10,666	2,036	9,105	19	1,643	319
1935-36	319	48,901	4	49,224	8,875	3,898	25,181	3,490	7,410	363
1936-37	363	33,721	17	34,099	9,539	2,741	20,618	19	889	293
1937-38	293	46,164	3	46,460	10,947	3,273	30,310	1,192	198	340
1938-39	340	61,906	3	62,349	14,667	4,554	44,648	4,424	7,009	965
1939-40	965	90,141	2	91,108	15,974	5,365	56,684	10,979	1,713	393
1940-41	393	78,045	1	78,439	15,141	4,999	64,056	284	6,731	690
1941-42	690	107,197	8*	107,887	20,385	3,925	77,151	489	72	6,009
1942-43	6,009	187,524	8*	193,533	20,980	6,016	133,454	917	19,629	12,537
1943-44	12,537	190,133	8*	202,670	19,758	5,496	142,306	962	19,995	14,153
1944-45	14,153	192,121	4	206,278	18,911	3,529	153,402	5,090	17,607	7,739
1945-46	7,739	193,167	8*	200,906	16,745	3,727	159,460	2,858	13,760	4,356
1946-47	4,356	203,395	8*	207,751	17,455	2,638	170,235	3,880	8,140	5,393
1947-48	5,393	186,451	8*	191,844	16,066	2,503	161,397	2,972	6,289	2,617
1948-49	2,617	227,217	7	229,841	15,945	2,805	181,664	23,015	1,211	3,181
1949-50	3,181	234,194	4	237,379	19,021	2,506	195,265	13,142	4,538	2,967
1950-51	2,967	299,279	2	302,188	18,225	2,530	251,990	27,833	2,549	4,159
1951-52	4,159	282,477	1	286,657	19,539	2,027	244,380	17,046	70	3,575
1952-53	3,575	298,052	2	301,629	19,840	2,033	234,404	31,908	3,312	10,132
1953-54§§	10,132	262,341								

\*Factory and warehouse stocks only, through Oct. 1, 1941; total stocks, Oct. 1, 1942 and subsequently.  
 \*\*Crop of year listed first, e.g., the 1924 crop was 4,947,000 bushels. †Sum of stocks, production and imports. The "total supply" figures for years previous to 1942-43 are incomplete to the extent that they do not include stocks on farms, in country elevators, and at terminal markets. (Such stocks were not reported previous to Oct. 1, 1942.) ‡Figures are not adjusted for new crop soybeans used in September. §Fed to livestock on farms where produced. ¶Data not available for years previous to 1931-32. Includes shipments to U. S. territories, 1937-38 through 1950-51. †Residual item. This includes soybeans fed to livestock other than on farms where the soybeans were produced. It may also include small quantities used for human food. Prior to 1941-42 it includes exports. Prior to 1937-38 it includes shipments to U. S. territories. The minus quantities shown for some years are explainable largely by unreported stocks (prior to Oct. 1942) and by the use of new crop soybeans in September of year of production. 7\* Factory and warehouse stocks only, through September 30, 1941; total stocks, Sept. 30, 1942 and subsequently. 8\* Less than 500 bushels. §§ Preliminary. Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

## VALUE OF U. S. SOYBEAN CROP

SOYBEANS FOR BEANS: Value of Production, United States and specified States, 1925-51

Year	U.S.	Illinois	Iowa	Indiana	Ohio	Missouri	Minnesota
Thousands of Dollars							
1925	11,430	3,077	360	872	571	905	
1930	19,058	8,259	1,350	2,495	651	1,594	
1935	35,565	18,093	4,510	4,879	1,771	1,140	76
1940	79,224	29,675	12,478	8,929	8,168	1,601	779
1941	166,042	77,411	24,341	21,337	20,336	3,462	1,752
1942	301,137	108,830	56,013	42,472	38,073	11,304	5,288
1943	345,032	129,881	65,743	46,461	45,851	15,714	5,929
1944	393,893	151,486	79,485	51,685	44,629	21,457	8,088
1945	402,234	156,416	73,143	58,889	39,935	19,843	13,860
1946	522,140	196,610	94,707	66,048	40,110	36,618	28,417
1947	621,477	221,869	98,995	92,584	59,404	31,691	48,096
1948	516,069	184,336	79,529	72,862	42,912	36,093	35,904
1949	506,474	183,561	69,345	69,345	45,360	39,623	29,792
1950	737,823	238,383	112,094	89,308	62,519	64,790	44,129
1951	769,926	263,538	88,918	104,791	59,156	69,402	50,513
1952	809,514	247,932	104,676	107,576	56,043	88,769	57,496
1953*	667,556	199,930	87,357	93,980	54,157	63,840	69,240

\* Preliminary.

Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

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General Offices: IOWA CITY, IOWA

## CANADIAN PRODUCTION PRODUCTION OF SOYBEANS IN CANADA 1942-53

Acreage, Yield and Total Production

	Acreage	Yield per Acre	Production
Year	Acres	Bushels	Bushels
1942	44,000	21.0	925,000
1943	35,550	16.0	569,100
1944	36,200	18.8	681,820
1945	46,200	18.3	844,000
1946	59,200	18.1	1,072,000
1947	61,000	18.2	1,110,000
1948	94,000	19.4	1,824,000
1949	103,800	25.1	2,605,000
1950	142,000	23.4	3,323,000
1951	155,000	24.8	3,843,000
1952	172,000	24.0	4,128,000
1953	216,000	20.4	4,406,000

## PRODUCTION OF SOYBEAN OIL AND OILCAKE IN CANADA

Crop Year	Soybeans Crushed Bushels	Oil Produced Tons	Oilcake and Meal Produced Tons
1943-44	241,315	1,078	6,308
1944-45	889,283	3,875	21,064
1945-46	1,541,869	7,333	36,439
1946-47	2,277,304	11,362	52,596
1947-48	2,300,743	12,236	54,343
1948-49	3,901,831	19,832	89,062
1949-50	4,958,799	25,237	116,845
1950-51	7,393,274	36,338	176,343
1951-52	7,059,102	35,163	169,762
1952-53	8,406,128	43,963	200,725

Source of data: Dominion Bureau of Statistics.

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# WORLD SOYBEAN PRODUCTION

SOYBEANS: Acreage, yield per acre, and production in specified countries and the world, averages 1935-39 and 1945-49, annual 1951-53 1/

Continent and Country	Acreage 2/					Yield Per Acre					Production				
	Average		1952	Average		1952	Average		1952	Average		1952	Average		
	1935-39	1945-49		1935-39	1945-49		1935-39	1945-49		1935-39	1945-49				
<b>NORTH AMERICA</b>															
Canada	4	10	73	172	216	21.3	30.5	24.0	20.4	4	30 <sup>1</sup>	1,401	4,138	4,406	
United States 5/	3,042	10,639	14,338	14,366	18.5	19.6	20.8	18.3	18.3	4	56,307	208,885	206,052	252,341	
<b>EUROPE</b>															
Italy	6/	4	2	---	---	12.1	17.8	22.9	---	4/	71	155	51	---	
Yugoslavia	5	15	---	---	---	14.9	10.1	---	---	---	1,067	456	482	578	
Other Europe	93	68	95	97	---	---	---	---	---	---	---	---	---	---	
U. S. S. R. (Europe and Asia)	7/	607	---	---	---	---	---	---	---	7/	5,805	---	---	---	
<b>ASIA</b>															
Turkey	7/	4/	7	---	---	20.0	10.9	14.9	---	7/	47	45	110	---	
China Proper (22 provinces)	12,411	11,256	7,430	8,330	16.7	16.9	16.9	16.3	16.3	---	307,666	190,248	300,000	220,000	
Manchuria	8,992	7,048	---	---	16.8	16.5	16.9	16.3	16.3	---	151,284	110,435	126,000	184,000	
Indonesia 8/	889	661	971	1,013	10.0	9.7	10.0	15.2	15.2	4	9,231	6,393	9,700	---	
Japan	797	612	1,013	1,040	15.6	12.1	18.9	---	---	---	7,432	19,161	15,800	---	
Korea 9/	4/	583	500	---	10.0	8.5	7.9	---	---	---	17,654	4,964	4,135	---	
Taiwan (Formosa)	4/	32	---	---	8.9	9.4	---	---	---	4/	131	297	551	500	
<b>SOUTH AMERICA</b>															
Brazil 10/	---	23	151	154	19.0	19.1	20.2	---	---	---	---	446	2,890	3,114	
<b>AFRICA</b>															
Union of South Africa	---	4/	10	---	---	---	---	---	---	---	---	---	---	---	
Tanzania	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total (excluding "Other Europe," U. S. S. R., China, Manchuria and North Korea)	5,670	12,750	17,465	17,589	---	---	---	---	---	---	87,185	231,045	240,570	301,740	
World Total 11/	29,900	32,460	38,210	40,130	---	---	---	---	---	---	465,350	548,180	674,110	664,575	

1/ Years shown refer to years of harvest. Southern Hemisphere crops which are harvested in the early part of the year are combined with those of the Northern Hemisphere harvested the latter part of the same year. 2/ Figures refer to harvested areas as far as possible. 3/ Preliminary. 4/ Average of less than 5 countries. 5/ Acreage harvested for beans. 6/ Less than 500 acres. 7/ One year only. 8/ Java and Madura only. 9/ Beginning with 1948 figures represent South Korea only. 10/ Rio Grande do Sul and Sao Paulo. 11/ Includes estimates for the above countries for which data are not available and for minor producing countries.

Foreign Agricultural Service. Prepared or estimated on the basis of official statistics of foreign governments, reports of United States Foreign Service officers, results of office research, or other information. Prewar estimates for countries having changed boundaries have been adjusted to conform to present boundaries, except as noted.

# SOYBEAN PRODUCTION

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Alabama

Year	Acres Planted—			Acres Harv.—		Grazed or Plowed Under	Average Yield		Total Prod.	
	Grown Alone	Inter- planted*	Equivalent Solid†	For Beans‡	For Hay		Per Acre For Beans	Per Acre Harv. For Hay	For Beans Thous.	For Hay Thous.
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
1924	95	25	107	3	81	23	6.5	.80	20	65
1925	115	23	127	3	96	28	7.0	.60	21	58
1930	150	14	157	8	129	20	5.0	.80	30	103
1935	183	28	197	11	163	23	5.5	.90	60	147
1940	275	37	294	11	278	35	6.5	.90	72	214
41	350	35	368	19	288	61	8.0	.95	152	274
42	290	30	305	24	217	64	5.5	.90	204	195
43	331	28	345	39	248	68	10.5	.85	304	211
44	268	22	279	30	191	58	10.0	.85	300	162
45	238	20	248	29	186	33	12.0	.90	348	167
46	207	16	215	30	157	28	17.5	.95	525	149
47	164	14	171	48	109	14	18.0	.90	864	98
48	144	13	150	81	88	11	21.5	.95	1096	84
49	134	12	140	55	76	9	19.1	.97	1050	74
1950	150	10	155	73	68	14	19.0	1.00	1387	68
51	166	8	170	88	66	16	18.3	.90	1584	59
52	166	7	170	92	68	10	19.0	.80	1748	54
53§	149	6	152	92	53	7	20.5	.90	1886	48

## Arkansas

1924	24	27	38	3	24	11	6.5	1.10	20	26
1925	32	35	50	4	36	10	6.0	.90	24	32
1930	76	51	102	9	76	17	7.5	.75	68	57
1935	116	90	161	27	104	30	11.5	.95	310	99
1940	205	413	411	63	163	185	12.0	1.25	756	204
41	217	425	429	116	124	189	15.0	1.15	1740	143
42	304	400	504	217	132	155	15.0	1.20	3255	158
43	410	420	620	267	180	173	9.5	.95	2536	171
44	320	273	456	233	122	101	15.5	.95	3612	116
45	342	177	430	209	119	102	16.0	1.15	3344	137
46	369	204	471	295	81	95	18.5	1.15	5458	93
47	380	169	464	383	88	93	12.0	1.00	3396	88
48	320	140	390	273	67	50	20.0	1.20	5460	80
49	340	136	400	300	51	49	21.0	1.12	6300	57
1950	646	176	734	581	80	73	21.5	1.20	12492	96
51	685	111	741	607	74	60	20.0	1.15	12140	85
52	952	88	996	866	100	30	16.0	.90	13856	90
53§	800	62	831	665	108	58	11.0	.85	7315	92

## Delaware

1924	18	—	18	12	6	—	11.0	1.00	132	6
1925	18	—	18	11	7	—	15.0	1.10	165	8
1930	25	—	25	15	10	—	6.0	1.15	90	12
1935	27	—	27	16	11	—	13.0	1.30	208	14
1940	48	—	48	25	16	—	12.0	1.30	300	19
41	53	—	53	30	17	7	11.5	1.30	345	22
42	66	—	66	42	18	6	16.0	1.40	672	25
43	76	—	76	39	27	10	8.5	.90	332	24
44	67	—	67	34	24	9	9.0	1.10	306	26
45	58	—	58	41	14	3	14.0	1.35	574	19
46	58	—	58	43	13	2	15.5	1.25	666	16
47	65	—	65	55	9	1	13.0	1.30	715	12
48	63	—	63	53	7	3	12.5	1.25	662	9
49	72	—	72	61	8	3	14.5	1.30	884	10
1950	74	—	74	61	8	3	14.0	1.30	882	10
51	69	—	69	61	6	2	14.5	1.30	884	8
52	67	—	67	58	7	2	17.0	1.35	986	9
53§	72	—	72	64	6	2	16.5	1.25	1056	8

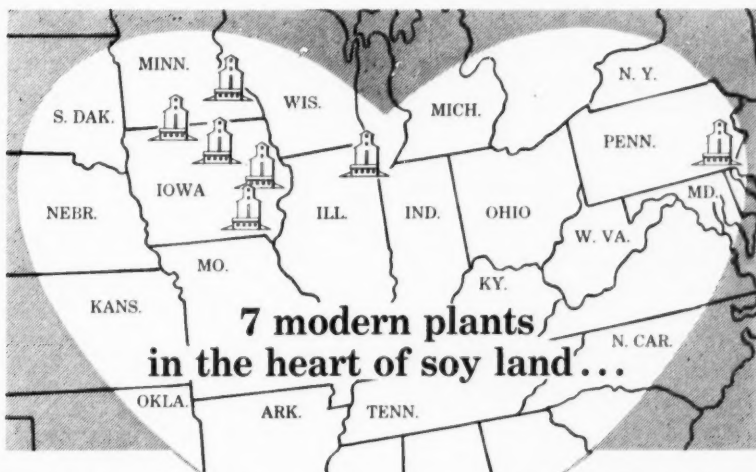
\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

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# CARGILL

# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Georgia

Year	Acres Planted			Acres	Harv.	Grazed	Average Yield		Total Prod.
	Grown	Inter-	Equivalent	For	For	or Plowed	Per Acre	For	For
	Alone	planted	Solid†	Beans‡	Hay	Under	For	Beans	Hay
							Beans	Hay	Thous.
	Thousand Acres			Thousand Acres			Bushels	Tons	Tons
1924	40	28	54	10	25	19	5.5	.80	55
1925	49	42	70	12	33	25	6.5	.80	78
1930	56	26	69	10	30	9	5.5	.87	35
1935	50	33	66	7	48	11	6.0	1.00	42
1940	100	120	100	13	90	57	7.0	.95	91
41	120	98	169	14	85	70	6.5	.85	91
42	96	56	124	11	58	55	7.5	.88	82
43	103	63	135	11	70	54	6.5	.90	72
44	80	40	100	11	46	43	6.0	.90	66
45	60	37	78	6	43	29	9.0	.95	54
46	55	26	73	9	26	38	8.5	.90	76
47	54	37	72	15	27	30	9.0	.90	135
48	57	40	77	16	28	33	9.5	1.00	152
49	63	50	88	15	32	41	10.5	1.00	158
1950	78	38	107	26	28	53	11.0	.95	286
51	86	55	114	21	30	63	10.5	.90	220
52	90	76	128	36	36	56	10.5	.95	378
53§	100	74	137	50	39	48	12.0	1.00	600

## Illinois

1924	315	—	315	115	200	—	12.0	1.30	1380	260
1925	290	—	290	106	184	—	13.5	1.25	1431	230
1930	720	—	720	410	310	—	17.0	1.30	6970	372
1935	2431	—	2431	1309	849	73	18.5	1.45	27916	1231
1940	3011	—	3011	1995	748	268	17.5	1.25	34912	935
41	2813	—	2813	2138	420	55	21.5	1.30	50267	546
42	3769	—	3769	3239	344	186	21.0	1.40	68019	482
43	3976	—	3976	3436	497	43	21.0	1.30	72156	646
44	3896	—	3896	3470	287	39	21.4	1.15	74258	445
45	4079	—	4079	3760	279	40	20.0	1.20	75200	335
46	3524	—	3524	3320	186	18	23.5	1.45	78020	270
47	3806	—	3806	3636	144	26	18.0	1.10	65448	158
48	3502	—	3502	3354	124	24	24.0	1.40	80496	174
49	3467	—	3467	3267	145	35	23.5	1.36	83818	197
1950	4108	—	4108	3989	94	25	24.0	1.30	95736	122
51	3841	—	3841	3731	72	38	25.5	1.40	95140	101
52	3840	—	3840	3716	95	19	24.0	1.10	89184	104
53§	3967	—	3967	3751	117	39	20.5	1.10	76896	129

## Indiana

1924	204	—	204	66	109	29	9.0	1.22	653	133
1925	148	—	148	40	93	15	10.0	1.25	400	116
1930	443	—	443	151	248	44	14.0	1.10	2114	273
1935	850	—	850	410	391	40	17.0	1.45	6970	567
1940	1418	—	1418	723	548	147	13.0	1.00	9399	548
41	1234	—	1234	815	370	49	17.0	1.35	13855	500
42	1691	—	1691	1319	296	76	20.0	1.50	26380	444
43	1776	—	1776	1403	337	36	18.5	1.40	25956	472
44	1812	—	1812	1473	304	35	17.2	1.20	25336	365
45	1703	—	1703	1466	208	29	19.5	1.45	28587	302
46	1533	—	1533	1374	136	23	19.0	1.40	26106	190
47	1625	—	1625	1503	106	16	18.5	1.40	27806	148
48	1560	—	1560	1459	86	15	22.0	1.55	32098	133
49	1576	—	1576	1442	110	24	23.5	1.52	33667	167
1950	1765	—	1765	1652	88	25	22.5	1.45	37170	126
51	1800	—	1800	1706	72	22	22.5	1.45	38385	104
52	1782	—	1782	1683	77	22	23.5	1.35	39550	104
53§	1853	—	1853	1755	74	24	21.0	1.25	36855	92

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.



# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Iowa

Year	—Acres Planted—			—Acres Harv.—		Grazed or Plowed Under	Average Yield Per Acre Harv.		Total Prod. For For Beans Hay	
	Grown Alone	Inter- planted*	Equivalent Solid†	For Beans†	For Hay		For Beans	For Hay	Beans Thous.	Hay Thous.
	—Thousand Acres—			—Thousand Acres—			Bushels	Tons	Bushels	Tons
1924	23		23	10	13		12.0	1.50	120	20
1925	18		18	7	11		14.0	1.40	98	15
1930	124		124	66	57	1	15.5	1.30	1023	74
1935	1200		1200	408	757	35	16.5	1.50	6732	1136
1940	1481		1481	709	707	65	20.0	1.70	14180	1202
41	1288		1288	942	297	49	17.0	1.45	16914	451
42	2061		2061	1818	125	118	19.5	1.30	35431	188
43	2021		2021	1873	127	21	19.5	1.45	36524	184
44	2038		2038	1910	89	29	20.3	1.46	38773	110
45	1973		1973	1910	45	18	18.5	1.45	35335	65
46	1578		1578	1548	22	8	23.0	1.45	35604	32
47	1957		1957	1884	20	53	15.5	1.10	29202	22
48	1616		1616	1564	44	8	22.5	1.50	35190	66
49	1380		1380	1340	30	10	23.0	1.71	20820	51
1950	1960		1960	1930	18	12	22.0	1.60	42460	29
51	1638		1638	1583	12	43	20.5	1.40	32452	17
52	1540		1540	1526	7	7	25.5	1.75	38913	12
53‡	1617		1617	1597	10	10	21.5	1.50	34376	15

## Kansas

1924	11		11	2	9		11.0	1.30	22	12
1925	12		12	4	8		10.0	1.30	40	10
1930	27		27	7	20		7.5	1.10	52	22
1935	38		38	7	29	2	6.5	1.10	46	32
1940	78		78	26	43	9	12.0	1.55	312	67
41	83		83	47	26	10	11.5	1.60	540	42
42	290		290	212	29	58	11.5	1.65	2438	33
43	313		313	244	16	53	9.5	1.35	2318	18
44	203		203	185	14	4	13.7	1.40	2534	20
45	258		258	235	10	11	10.0	1.20	2350	12
46	225		225	198	16	11	11.0	1.10	2178	18
47	250		250	230	8	12	8.5	1.20	1955	10
48	198		198	176	5	17	15.0	1.35	2640	7
49	271		271	257	6	8	14.5	1.35	3726	8
1950	409		409	397	4	8	18.0	1.40	7146	6
51	495		495	401	5	89	14.5	1.45	5814	7
52	703		703	640	35	24	11.5	1.05	7360	37
53‡	598		598	496	48	54	8.0	.90	3968	43

## Kentucky

1924	40		45	9	30	6	9.5	1.10	86	33
1925	50		56	8	43	5	8.5	1.10	68	42
1930	110		114	9	88	17	7.5	.75	68	66
1935	100		106	8	86	12	10.0	1.15	80	116
1940	180		194	31	130	33	13.0	1.30	403	169
41	198		210	42	133	35	14.0	1.60	588	213
42	224		242	83	136	23	14.5	1.60	1304	218
43	242		262	81	150	31	12.0	1.40	972	210
44	188		204	66	125	13	15.0	1.30	990	162
45	169		183	60	101	22	16.0	1.40	960	141
46	152		166	87	58	21	18.0	1.45	1566	84
47	170		185	100	68	15	17.5	1.45	1750	99
48	194		208	121	73	14	19.0	1.45	2399	106
49	232		243	138	82	23	18.0	1.45	2484	119
1950	202		211	126	66	19	17.5	1.45	2205	96
51	212		220	130	70	20	19.0	1.40	2470	98
52	220		227	110	99	18	15.5	1.20	1705	119
53‡	200		207	96	91	20	13.0	1.30	1248	118

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Louisiana

Year	Acres Planted — Grown Alone Inter- Equivalent Planted* Solid†			Acres Harv.— For Beans† For Hay		Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans For Hay		Total Prod. For Beans Thous. For Hay Thous.	
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
1924	10	70	45	8	32	5	8.0	90	64	29
1925	13	80	53	12	31	10	10.0	120	130	37
1930	34	194	131	16	76	39	10.5	1,000	168	76
1935	25	170	110	9	59	42	12.5	1,100	112	65
1940	110	330	375	15	82	278	13.5	1,250	202	102
41	149	530	434	16	89	319	11.5	1,200	184	107
42	155	517	413	72	70	271	12.5	1,250	900	88
43	147	517	405	33	62	310	11.5	1,200	380	74
44	85	403	287	23	34	230	12.0	1,200	276	41
45	99	383	291	23	29	239	14.0	1,300	322	38
46	104	360	284	26	34	224	13.0	1,350	338	46
47	110	367	294	23	21	250	12.5	1,350	288	28
48	119	330	284	33	21	230	14.0	1,200	462	25
49	74	287	218	23	16	179	15.0	1,300	345	21
1950	89	300	239	37	12	190	18.0	1,250	666	15
51	140	360	290	38	12	240	17.5	1,100	665	13
52	130	255	258	41	17	200	14.5	1,050	594	18
53‡	117	209	221	40	11	170	16.0	1,150	640	13

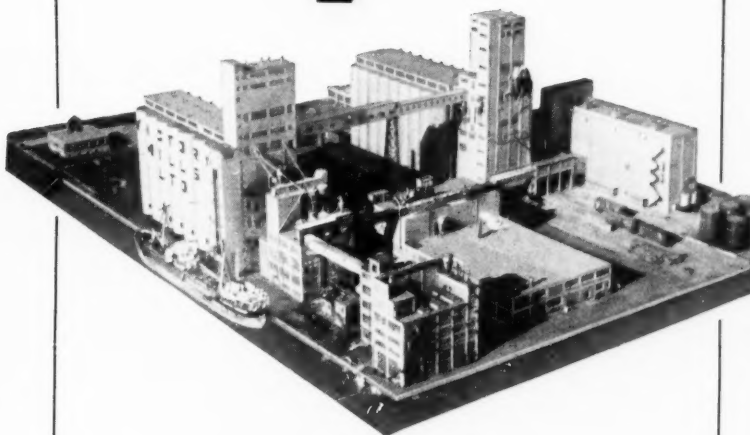
## Maryland

1924	33	6	36	5	16	15	11.8	1.40	59	22
1925	32	4	34	6	19	9	12.5	1.45	75	28
1930	33		33	5	25	3	6.5	.85	42	21
1935	33		33	5	27	1	12.0	1.50	60	40
1940	65		65	19	35	11	13.5	1.50	256	52
41	71		71	20	40	11	12.0	1.40	240	56
42	105		105	48	47	10	15.5	1.60	744	75
43	116		116	36	66	14	9.0	.85	324	56
44	94		94	32	49	13	13.0	1.30	416	64
45	78		78	39	35	4	15.0	1.40	585	49
46	70		70	41	22	7	14.5	1.40	594	31
47	72		72	47	22	3	14.0	1.45	611	32
48	74		74	52	18	4	15.5	1.45	806	26
49	80		80	57	15	8	16.5	1.30	940	22
1950	95		95	67	21	7	17.0	1.45	1,139	30
51	95		95	77	12	6	16.0	1.40	1,232	17
52	94		94	75	15	4	18.0	1.45	1,350	22
53‡	115		115	95	18	2	19.0	1.45	1,805	26

## Michigan

1924	8		8	2	6		13.0	1.30	26	8
1925	8		8	2	6		13.0	1.35	26	8
1930	7		7	1	6		10.0	.80	10	5
1935	48		48	16	32		14.5	1.30	232	42
1940	187		187	77	67	43	16.5	1.50	1,270	100
41	149		149	100	23	26	16.0	1.25	1,600	29
42	253		274	151	19	104	14.0	1.60	2,114	30
43	137		137	103	18	16	16.5	1.35	1,700	24
44	140		140	110	17	13	17.0	1.30	1,870	30
45	140		140	122	8	10	17.5	1.45	2,135	12
46	170		170	86	10	34	15.0	.95	1,290	10
47	90		90	76	8	6	17.0	1.20	1,292	10
48	70		70	65	3	2	17.5	1.30	1,138	4
49	72		72	63	4	5	23.0	1.40	1,449	6
1950	122		122	114	4	4	20.0	1.30	2,280	5
51	138		128	120	4	4	20.5	1.70	2,460	7
52	105		105	92	4	9	19.0	1.40	1,748	6
53‡	118		118	110	2	6	19.0	1.40	2,090	3

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.



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# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Minnesota

(Not estimated prior to 1933)

Year	Grown Alone	Acres Planted— Inter- Equivalent Solid†	—Acres Harv.— For Beans†	—Grazed or Plowed Under	Average Per Acre For Beans	Yield Harv. For Hay	Total For Beans Thous.	Prod. For Hay Thous.
	Thousand Acres		Thousand Acres		Bushels	Tons	Bushels	Tons
1913	15	15				1.30		20
1914	117	117	2	115	15.0	1.10	30	126
1915	91	91	6	85	14.0	1.40	84	119
1916	251	251	53	183	15.0	1.85	795	339
41	270	270	80	178	14.5	1.60	1160	285
42	413	413	273	41	99	13.0	3549	62
43	343	343	244	44	55	13.5	3294	66
44	352	352	260	81	11	15.4	4064	113
45	538	538	464	48	16	14.5	6738	72
46	676	676	627	42	7	17.5	11972	59
47	1034	1034	960	76	38	15.0	14400	50
48	920	920	896	18	6	18.0	16128	28
49	800	800	767	26	7	17.5	13422	40
1950	1200	1200	1148	38	14	15.5	17794	53
51	1140	1140	1077	13	50	17.5	18848	18
52	1197	1197	1155	6	36	19.0	21945	9
53‡	1409	1400	1351	7	42	20.5	27696	9

## Mississippi

1924	45	58	80	21	48	11	8.0	1.00	168	48
1925	54	61	91	21	59	11	10.0	1.05	210	62
1930	85	75	130	12	103	15	6.5	1.00	78	103
1935	203	223	337	37	229	71	8.5	1.05	314	240
1940	332	428	546	39	268	239	10.0	1.25	300	335
41	448	364	630	71	290	269	10.5	1.25	746	362
42	466	109	676	191	223	223	14.0	1.15	2674	256
43	466	353	612	128	295	219	12.0	1.05	1536	310
44	270	222	381	76	190	115	12.0	1.30	912	238
45	235	166	318	83	143	92	11.0	1.25	1079	179
46	254	153	330	96	152	82	13.0	1.25	1440	191
47	259	158	338	122	135	81	14.0	1.30	1708	176
48	300	114	357	174	111	72	18.0	1.35	3132	150
49	315	83	357	176	112	69	16.5	1.25	2904	140
1950	504	91	550	358	131	61	25.0	1.35	8950	177
51	600	70	635	425	127	83	13.0	1.20	5525	152
52	618	63	650	455	130	65	13.5	1.05	6142	136
53‡	494	50	519	250	120	149	12.0	1.05	3000	126

## Missouri

1924	165		165	48	112	5	7.5	1.20	360	134
1925	157		157	44	110	3	8.5	1.10	374	121
1930	422	50	447	138	288	21	7.0	.85	966	245
1935	430	30	460	142	300	18	7.5	1.10	1065	330
1940	564	80	604	109	401	94	13.0	1.40	1417	561
41	580	100	630	187	250	193	11.5	1.15	2150	288
42	790	140	770	471	112	187	15.0	1.40	7065	157
43	742	130	802	557	151	94	15.5	1.30	8634	196
44	734	84	776	601	130	55	17.5	1.30	10518	156
45	844	65	876	730	89	67	13.0	1.20	9360	107
46	802	57	830	718	67	45	20.0	1.25	14360	84
47	914	50	939	825	67	47	12.0	1.00	9000	67
48	823	46	846	795	34	17	20.0	1.35	15900	46
49	935	52	961	890	46	25	21.0	1.31	18690	60
1950	1225	48	1249	1309	25	15	23.0	1.35	27807	34
51	1396	44	1418	1290	28	100	20.0	1.35	25800	38
52	1801	46	1824	1724	55	45	19.0	1.20	32756	66
53‡	1963	40	1983	1824	99	60	14.0	1.00	25536	99

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Nebraska

(Not estimated prior to 1929)

Year	Acres Planted			Acres Harv.		Grazed or Plowed Under	Average Yield		Total For Beans Thous.	Prod. For Hay Thous.
	Grown Alone	Inter- planted*	Equivalent Solid†	For Beans‡	For Hay		Per Acre For Beans	Per Acre For Hay		
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
1929	2		2		2			1.40		3
1930	3		3		3			1.20		4
1935	9		9		9			.95		9
1940	20		20	4	14	3	14.0	1.20	56	10
41	32		32	20	5	7	11.0	1.10	220	6
42	55		55	40	4	11	15.0	1.15	600	5
43	85		85	73	2	10	12.0	1.15	876	2
44	22		22	19	1	2	17.8	1.25	338	1
45	30		30	17	2	1	18.0	1.25	306	2
46	25		25	23	1	1	21.0	1.25	483	1
47	25		25	32	1	2	14.5	1.10	464	1
48	26		26	23	1	2	23.0	1.60	529	2
49	20		20	20			23.2		444	
1950	50		50	50			24.0		1,200	
51	60		60	58		2	22.0		1,276	
52	90		90	88		2	26.0		2,288	
53	108		108	105		3	18.5		1,942	

## North Carolina

1924	120	90	165	75	70	20	15.5	.90	1162	63
1925	140	110	195	80	80	35	14.5	.70	1160	56
1930	230	220	340	128	150	62	10.5	.85	1344	128
1935	220	280	360	115	165	80	12.5	.95	1438	157
1940	360	450	585	190	180	215	12.0	1.10	2,280	198
41	371	472	609	218	181	208	10.0	1.12	2180	205
42	434	439	654	268	161	225	13.0	1.20	3484	193
43	495	430	710	257	220	233	9.0	1.00	2311	230
44	361	348	535	201	203	131	10.5	1.10	2110	223
45	668	299	518	216	191	111	12.5	1.15	2700	230
46	342	254	469	212	150	107	13.5	1.10	2867	165
47	380	229	494	233	144	117	15.0	1.15	3495	166
48	384	208	488	264	137	87	13.5	1.10	3564	151
49	380	206	483	264	116	103	15.0	1.10	3960	128
1950	410	206	511	297	122	94	16.0	1.10	4752	134
51	445	183	537	309	123	105	16.5	1.20	5098	148
52	432	133	508	287	127	94	16.5	1.05	4736	133
53	397	138	466	263	136	67	14.5	1.00	3814	136

## Ohio

1924	66		66	20	44	2	11.5	1.20	230	53
1925	57		57	17	38	2	14.0	1.30	238	49
1930	132		111	31	77	4	14.0	.90	434	69
1935	135		124	29		11	11.0	1.65	3604	363
1940	1030		1020	561	347	112	16.0	1.30	8976	451
41	898		898	636	215	27	20.0	1.35	11,120	333
42	1765		1765	1051	150	164	22.5	1.65	26,648	248
43	1379		1379	1213	178	28	21.0	1.60	24,473	221
44	1393		1393	1243	127	23	17.6	1.25	21,877	159
45	1184		1184	1077	83	24	18.0	1.45	19,386	120
46	971		971	903	53	15	18.0	1.45	16,254	77
47	1000		1000	950	42	8	18.5	1.50	17,575	63
48	940		940	908	24	8	20.0	1.50	18,614	36
49	936		936	875	47	14	24.0	1.52	21,000	71
1950	1136		1136	1090	29	17	22.5	1.50	24,325	44
51	1159		1159	1124	18	17	19.0	1.35	21,356	24
52	985		985	940	26	19	22.0	1.45	20,680	38
53	1064		1064	1036	18	10	20.5	1.45	21,238	26

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION— (Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

### Pennsylvania

Year	Acres Planted			Acres Harv.		Grazed or Plowed Under	Average Yield Per Acre Harv.		Total Prod.	
	Grown Alone	Inter- planted*	Equivalent Solid†	For Beans‡	For Hay		For Beans	For Hay	For Beans Thous.	For Hay Thous.
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
1924	7		7		7			1.45		10
1925	6		6		6			1.55		9
1930	11		11		10			1.10		11
1935	31		31	2	26	1	16.5	1.70	33	44
1940	82		82	14	54	14	16.0	1.50	224	81
41	77		77	15	49	13	14.5	1.55	218	76
42	108		108	35	54	19	17.0	1.70	595	92
43	127		127	45	65	17	13.0	1.55	585	101
44	119		119	37	64	18	13.2	1.45	488	93
45	74		74	28	33	12	15.5	1.60	434	53
46	62		62	26	30	6	16.0	1.70	416	51
47	57		57	24	23	10	16.0	1.70	384	39
48	52		52	23	20	9	16.5	1.70	380	34
49	48		48	23	18	7	18.6	1.70	428	31
1950	48		48	24	19	5	17.5	1.65	420	31
51	41		41	22	17	4	17.0	1.65	374	28
52	37		37	19	15	3	19.0	1.65	361	25
53§	37		37	19	13	5	17.0	1.60	323	21

### South Carolina

1924	9	28	23	7	9	7	7.0	.70	49	6
1925	18	40	38	8	21	9	5.5	.31	44	6
1930	20	50	45	9	23	13	6.5	.80	58	18
1935	16	39	36	5	16	15	7.0	.95	35	15
1940	32	94	79	11	29	39	6.5	.85	72	25
41	48	100	98	10	35	53	7.5	.95	75	33
42	48	87	92	12	33	47	8.0	.95	96	31
43	55	88	99	16	35	48	6.5	.80	104	28
44	35	75	73	16	21	36	7.0	.90	112	19
45	28	65	60	10	15	35	7.0	.95	70	14
46	36	76	74	24	18	32	10.0	.95	240	17
47	50	80	90	27	13	50	10.0	.95	270	12
48	72	86	115	36	23	56	10.0	1.10	360	25
49	65	100	115	37	24	54	13.5	1.05	500	25
1950	94	104	146	62	23	61	12.0	1.00	744	23
51	114	102	165	83	21	61	12.5	1.00	1038	21
52	132	106	185	98	33	54	11.5	.95	1127	31
53§	150	100	200	130	38	43	11.0	.95	1430	27

### South Dakota

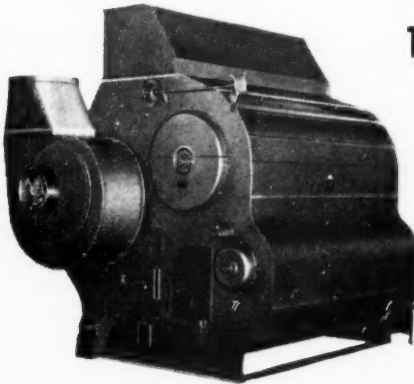
(Not Estimated Prior to 1939)

1939	2		2		2			1.10		2
1940	4		4		2	1	12.0	1.20	12	2
41	6		6		3	1	12.0	1.60	24	3
42	17		17	13	2	2	16.0	1.10	208	2
43	27		27	20	2	5	12.0	1.15	240	2
44	11		11	9	1	1	17.0	1.40	153	1
45	15		15	13	1	1	14.0	1.35	182	1
46	21		21	19	1	1	14.5	1.40	276	1
47	55		55	50	2	3	11.5	1.00	575	2
48	33		33	31	1	1	18.0	1.60	558	2
49	33		33	31	1	1	13.0	1.10	403	1
1950	72		72	70	1	1	12.5	1.10	875	1
51	63		63	60	1	2	14.5	1.20	870	1
52	89		89	85		4	15.0		1275	
53§	90		90	87		3	18.0		1566	

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

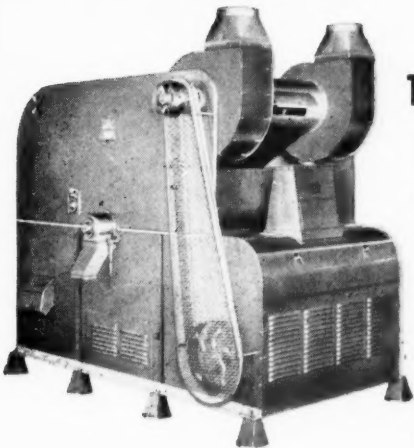


# SCREEN AND AIR SEPARATION



## THE CARTER SCALPERATOR

The Carter Scalperator is used profitably for the initial cleaning of soybeans going directly to storage. It removes coarse and light foreign materials, at relatively high capacity. Special controls can be applied to coordinate the volume of beans being scalped and aspirated with the volume required for drying. The Scalperator also will serve as a cold-blasting unit on beans following the dryers. Various sizes to fit your needs.



## THE CARTER MILLERATOR

The Carter Millerator is widely used for the screening and aspiration of soybeans before processing. It performs a refined scalping, removing material larger in diameter than the beans being handled, and much of the material that is substantially longer. The lower screen removes small seeds and sand and is also successfully used to remove splits from the beans.

The Millerator is also being used to remove hulls from beans following cracking operation. This dehulling operation is particularly profitable in solvent plants.

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# HART-CARTER COMPANY

655 Nineteenth Ave. N. E.

Minneapolis 18, Minn.

# SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-53 by States

## Tennessee

Year	Acres Planted—			Acres For Beans†	Harv. For Hay	Grazed or Plowed Under	Average Yield Per Acre Harv.		Total Prod. For Beans Thous.	Prod. For Hay Thous.
	Grown Alone	Inter-planted*	Equivalent Solid‡				For Beans	For Hay		
	Thousand Acres			Thousand Acres			Bushels	Tons	Bushels	Tons
1924	160	50	185	10	153	22	8.5	1.08	85	165
1925	150	40	170	8	142	20	7.5	.75	60	106
1930	190	64	222	20	172	30	7.5	.72	150	134
1935	128	90	173	18	108	47	6.5	1.00	117	108
1940	167	298	316	19	122	175	8.5	1.30	162	159
41	175	288	319	20	140	159	9.5	1.38	190	189
42	224	274	361	55	141	165	12.0	1.35	660	190
43	276	304	428	52	188	188	13.5	1.25	702	235
44	240	255	268	60	165	143	15.0	1.15	900	190
45	216	181	306	66	110	130	14.5	1.25	957	138
46	186	194	283	92	100	91	18.0	1.30	1656	130
47	206	194	305	122	97	86	15.5	1.25	1891	121
48	225	184	317	134	96	87	20.0	1.20	2680	115
49	230	173	316	142	79	95	20.2	1.32	2868	104
1950	248	163	330	168	70	92	21.0	1.40	3528	91
51	310	142	381	183	99	99	17.5	1.20	3202	119
52	326	118	385	181	142	62	20.0	1.00	3620	142
53‡	258	100	308	150	95	63	13.5	1.20	2025	114

## Virginia

1924	88	24	100	15	74	11	13.0	1.00	195	74
1925	106	28	120	16	92	12	11.0	.95	176	87
1930	120	31	136	17	79	40	7.0	.70	119	55
1935	96	38	115	25	76	14	14.0	1.20	350	91
1940	128	105	180	49	93	38	15.5	1.35	760	126
41	132	86	175	49	91	35	12.5	1.20	612	109
42	185	99	235	112	70	53	15.5	1.40	1736	98
43	231	102	282	93	115	74	11.0	1.05	1023	121
44	162	105	214	66	76	72	15.0	1.20	990	91
45	149	82	190	79	48	65	16.0	1.35	1264	65
46	149	78	188	67	47	74	16.5	1.35	1106	63
47	161	82	202	101	40	61	15.0	1.25	1515	50
48	155	70	190	120	29	41	16.5	1.35	1980	39
49	170	59	200	131	24	45	18.5	1.26	2424	30
1950	202	54	229	152	25	52	19.0	1.35	2888	34
51	220	56	248	166	34	48	18.0	1.30	2988	44
52	224	58	253	174	33	46	17.0	1.30	2958	43
53‡	231	58	260	167	52	41	16.0	1.10	2672	57

## Wisconsin

1924	38	—	38	3	35	—	9.0	1.40	27	49
1925	20	—	20	2	18	—	9.0	1.55	18	28
1930	14	—	14	2	12	—	11.5	1.20	23	14
1935	181	—	181	2	179	—	13.0	1.70	26	304
1940	215	—	215	25	162	—	17.5	2.00	438	324
41	168	—	168	37	105	26	15.0	1.60	555	168
42	155	—	155	60	55	40	13.0	1.85	780	102
43	105	—	105	63	35	7	14.5	1.85	914	65
44	103	—	103	42	53	8	12.8	1.45	538	77
45	93	—	93	39	46	8	13.0	1.80	507	83
46	79	—	79	35	36	8	12.5	1.50	438	54
47	63	—	63	29	28	6	12.0	1.75	348	49
48	54	—	54	22	27	5	13.0	1.40	286	38
49	59	—	59	21	34	4	15.0	1.64	315	56
1950	85	—	85	33	45	7	14.0	1.65	462	74
51	63	—	63	44	13	6	14.5	1.70	638	22
52	61	—	61	48	9	4	17.0	1.95	816	18
53‡	70	—	70	56	10	4	14.5	1.65	812	16

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.



**More Soybeans Cleaned Better  
for Less Cost**

*Super*  
**CLIPPER  
228-D**

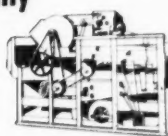
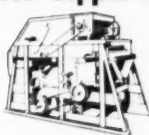
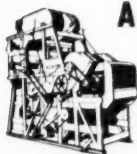


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Dept. D-453, Saginaw, Mich.

# SOYBEANS—SUPPLY AND DISTRIBUTION

1948-49 to date, in Thousand Bushels

Quarter or Period	SUPPLY					DISTRIBUTION						
	Stocks at beginning of period 1/					Total Production	Used for Seed	Net Exports 3/	Crushed at Mills	Feed & Residual 4/	Total disappear- ance	
	Farms	Interior Elevators	Crushing Plants	Terminal Markets	CCC 2/							
<b>1948-49</b>												
Oct. Dec.	1,891	128	468	130	—	2,617	227,217	4,172	46,275	-1,136	49,796	
Jan. Mar.	75,013	36,805	53,416	14,804	—	180,038	—	6,618	40,381	8,123	64,122	
Apr. June	58,143	19,262	36,305	7,206	—	113,916	13,381	7,575	46,694	5,847	75,463	
July Sept.	9,692	9,134	18,333	3,294	—	40,453	—	4,634	40,848	-8,210	37,272	
<b>SEASON</b>						2,617	227,217	23,004	183,664	4,694	226,653	
<b>1949-50</b>												
Oct. Dec.	2,221	213	285	462	—	3,181	234,164	4,538	51,650	1,904	57,572	
Jan. Mar.	62,239	35,303	66,538	16,713	—	170,801	—	3,896	50,637	3,807	58,250	
Apr. June	45,804	17,517	47,091	10,241	—	121,553	18,493	4,063	47,091	4,789	75,356	
July Sept.	7,190	4,359	28,478	6,190	—	46,217	—	736	44,687	-2,113	43,370	
<b>SEASON</b>						3,181	234,164	13,133	195,265	7,577	234,468	
<b>1950-51</b>												
Oct. Dec.	1,241	244	502	920	—	2,907	299,279	10,501	67,056	-7,122	70,435	
Jan. Mar.	101,728	38,945	77,163	13,915	—	217,751	—	9,110	72,532	9,960	88,422	
Apr. June	48,085	19,564	63,157	12,513	—	143,259	18,225	9,335	61,165	2,341	81,186	
July Sept.	9,996	4,362	33,584	4,201	—	52,143	—	1,660	51,417	-5,093	47,984	
<b>SEASON</b>						2,907	299,279	27,826	251,980	— 14	298,027	
<b>1951-52</b>												
Oct. Dec.	2,675	262	352	670	—	3,959	282,477	7,281	67,851	-8,674	66,458	
Jan. Mar.	134,167	44,399	61,852	9,760	—	230,178	—	4,256	68,043	17,763	96,060	
Apr. June	60,095	21,858	42,708	5,457	—	130,118	10,539	5,811	58,439	4,188	84,967	
July Sept.	5,804	4,640	30,838	3,899	—	45,151	—	2,697	50,057	-11,178	41,576	
<b>SEASON</b>						4,159	282,477	17,045	244,380	2,097	283,061	
<b>1952-53</b>												
Oct. Dec.	1,958	296	611	710	—	3,575	205,357	13,590	65,901	-8,617	70,874	
Jan. Mar.	81,211	48,569	79,853	11,394	1,037	224,383	—	7,406	60,665	10,394	82,665	
Apr. June	58,316	27,926	49,613	9,048	815	145,218	19,240	6,340	57,163	590	83,042	
July Sept.	19,877	11,993	26,905	3,245	356	62,176	—	5/ 4,083	50,580	-5,884	50,279	
<b>SEASON</b>						3,578	201,662	31,428	234,399	-1,317	284,260	
<b>1953-54</b>												
Oct. Dec.	6,620	2,036	1,023	1,998	240	10,997	—	—	—	—	—	

1/ October 1 stocks in all positions include only old crop soybeans. 2/ Owned by Commodity Credit Corporation in transit to ports. 3/ Imports negligible. 4/ Mostly quantity fed, but includes waste, loss, and statistical errors in estimates. 5/ Partly estimated. Stocks, production and quantity used for seed estimated by Crop Reporting Board; exports and quantity crushed from Bureau of the Census. U. S. Department of Agriculture Production and Marketing Administration.

## SOYBEAN OIL MEAL PRODUCTION

SOYBEAN OIL MEAL AND CAKE: SUPPLY AND UTILIZATION IN THE U. S. 1924-53

Year Beginning October 1	Supply			Utilization		
	Domestic Production	Imports	Total Supply	Exports	1,000 Tons Food, Industry and other Non-feed*	Feed
1924-25	7.6	18.3	25.9			25.9
1925-26	8.6	19.8	28.4			28.4
1926-27	8.3	23.9	32.2			32.2
1927-28	13.7	47.7	61.4			61.4
1928-29	21.5	69.5	91.0			91.0
1929-30	40.7	73.5	114.2			114.2
1930-31	98.6	24.0	122.6			122.6
1931-32	114.7	18.6	133.3			133.3
1932-33	84.3	28.3	112.6			112.6
1933-34	71.9	25.0	96.9			96.9
1934-35	220.4	64.2	284.6		18.0	266.6
1935-36	613.1	20.0	633.1		19.0	614.1
1936-37	495.8	55.7	551.5		20.0	531.5
1937-38	724.1	15.5	739.6		21.0	718.6
1938-39	1,064.4	12.3	1,076.7	35.0	22.0	1,019.7
1939-40	1,448.8	12.1	1,460.9	62.3	23.0	1,375.6
1940-41	1,543.4	8.1	1,551.5	25.4	35.0	1,491.1
1941-42	1,844.9	0	1,844.9	19.7	40.1	1,785.1
1942-43	3,200.3	0	3,200.3	20.9	105.5	3,073.9
1943-44	3,446.0	0	3,446.0	16.1	107.1	3,322.8
1944-45	3,698.5	0	3,698.5	10.0	61.4	3,627.1
1945-46	3,837.3	0	3,837.3	.9	181.4	3,655.0
1946-47	4,086.4	0	4,086.4	141.7	199.3	3,745.4
1947-48	3,832.7	0	3,832.7	95.7	354.8	3,383.2
1948-49	4,330.5	3.2	4,333.7	150.6	44.0	4,139.1
1949-50	4,585.6	26.1	4,611.7	47.4	25.0	4,539.3
1950-51	5,896.8	32.8	5,929.6	181.1	30.0	5,718.5
1951-52	5,703.7	24.1	5,727.8	41.8	30.0	5,656.0
1952-53**	5,551.3	41.1	5,592.4	46.8	30.0	5,515.6

\*Estimated.

\*\*Preliminary.

Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

### PRODUCTION OF SOYBEAN OIL MEAL BY MONTHS AND CROP YEARS, 1946-52 (1,000 tons)

	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53*
October	273.3	328.5	414.5	453.3	500.4	539.5
November	352.0	383.0	406.4	536.1	536.5	518.6
December	365.2	395.3	407.2	576.0	542.3	506.7
January	393.8	398.7	402.8	590.4	563.8	506.5
February	355.7	367.8	364.8	539.3	535.0	442.7
March	350.4	463.9	422.9	580.9	494.7	485.5
April	337.3	376.8	403.5	512.3	467.2	456.1
May	313.3	364.2	394.2	499.9	457.9	488.6
June	299.3	355.9	323.3	418.2	435.1	404.2
July	296.8	357.6	364.0	413.4	410.8	387.6
August	253.5	318.9	363.7	441.9	418.6	445.0
September	240.8	279.9	318.3	345.0	351.4	370.3
TOTALS	3,832.7	4,330.5	4,585.6	5,896.8	5,703.7	5,551.3

\*Preliminary.

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

**Additional copies of the Soybean Blue Book may be purchased from the American Soybean Association, Hudson, Iowa, by members for \$1.**

## SOYBEAN OIL, MEAL AND CAKE PRODUCTION AND STOCKS BY STATES

CRUDE SOYBEAN OIL AND SOYBEAN CAKE AND MEAL, Production and Stocks by States,  
1953-1949 (2,000 pounds)

States	CRUDE SOYBEAN OIL (1,000 lbs.)				SOYBEAN CAKE AND MEAL (2,000 lbs.)			
	1953	1952	1951	1949	1953	1952	1951	1949
<b>UNITED STATES</b>								
Production	2,514,470	2,478,046	2,472,838	1,859,066	5,466,924	5,689,188	5,910,591	4,451,812
Stocks, end of month or year	36,463	—	96,650	30,589	104,835	—	34,077	47,381
<b>Arkansas</b>								
Production	19,053*	( )	51,776	25,926	48,646*	( )	137,156	68,947
Stocks, end of month or year	( )	—	2,794	897	1,290	—	1,497	1,795
<b>Illinois</b>								
Production	1,025,277	996,532	1,049,874	741,719	2,068,885	2,112,046	2,311,294	1,662,710
Stocks, end of month or year	12,802	—	36,022	8,949	51,524	—	13,537	10,680
<b>Indiana</b>								
Production	297,981	261,069	209,145	151,092	651,960	591,546	496,282	367,254
Stocks, end of month or year	6,433	—	7,392	1,623	( )	—	3,164	926
<b>Iowa</b>								
Production	430,478	392,058	364,767	344,735	986,573	966,184	940,235	845,501
Stocks, end of month or year	5,372	—	15,569	6,354	7,413	—	3,295	5,068
<b>Kansas</b>								
Production	48,860*	( )	51,175	44,611	91,407*	( )	131,096	114,004
Stocks, end of month or year	701	—	3,672	1,987	( )	—	1,018	( )
<b>Kentucky</b>								
Production	50,763*	66,707	70,587	58,426	108,234*	139,712	154,563	135,059
Stocks, end of month or year	328	—	955	370	( )	—	752	500
<b>Minnesota</b>								
Production	130,710	97,894	94,560	71,757	284,802	257,869	241,303	177,774
Stocks, end of month or year	2,518	—	5,175	2,364	3,966	—	1,112	3,434
<b>Mississippi</b>								
Production	10,435*	29,455	—	—	22,548*	70,974	( )	( )
Stocks, end of month or year	( )	—	—	—	468	—	( )	( )
<b>Missouri</b>								
Production	74,114	71,732	77,869	74,180	169,203	180,903	211,927	194,214
Stocks, end of month or year	1,569	—	2,740	1,798	1,302	—	926	1,494
<b>Nebraska</b>								
Production	15,905*	( )	16,793	16,530	42,339*	( )	47,438	44,357
Stocks, end of month or year	535	—	980	243	( )	—	( )	( )
<b>North Carolina</b>								
Production	8,458	18,800	19,402	( )	24,893*	53,610	55,042	( )
Stocks, end of month or year	303	—	1,327	548	4,355	—	446	5,821
<b>Ohio</b>								
Production	282,801	289,594	258,427	215,907	631,402	665,650	611,216	529,638
Stocks, end of month or year	3,789	—	7,349	3,581	3,186	—	3,018	2,588
<b>Oklahoma</b>								
Production	5,211*	( )	6,837	( )	14,233*	( )	18,882	( )
Stocks, end of month or year	( )	—	426	( )	( )	—	253	( )
<b>Texas</b>								
Production	( )	196	6,691	4,095	( )	538	16,950	11,563
Stocks, end of month or year	( )	—	( )	( )	( )	—	( )	( )
<b>All other States</b>								
Production	140,099	254,009	194,935	110,098	321,799	650,496	515,308	300,811
Stocks, end of month or year	2,113	—	12,279	2,875	31,461	—	5,029	15,955

( ) Included in "All other States" to avoid disclosure of figures for individual companies. From Bureau of Census. \* All months not shown to avoid disclosure of figures for individual companies.

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## PRODUCTION OF PROTEIN CONCENTRATE

PRODUCTION OF SPECIFIED PROTEIN CONCENTRATES IN THE UNITED STATES,  
YEAR BEGINNING OCTOBER 1, 1937-41 AVERAGE AND 1945-1953

Protein Concentrate	Average 1937-41	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53*
	Thousands of tons							
Soybean cake and meal	1,905	4,086	3,883	4,330	4,586	5,897	5,704	5,551
Linseed cake and meal	616	374	625	687	689	730	495	458
Cottonseed cake and meal	2,087	1,428	2,016	2,416	2,497	1,723	2,534	2,673
Peanut cake and meal	67	122	123	117	137	151	94	42
Copra cake and meal	76	194	170	138	154	149	122	116
Gluten feed and meal	690	1,040	799	848	926	966	897	942
Tankage and meat scraps	656	736	790	817	876	858	912	975
Fish cake and meal	194	183	188	189	218	214	198	215
Dried milk products**	142	115	90	95	100	100	100	100
Other milk products†	1,829	1,300	1,369	1,280	1,300	1,270	1,225	1,250
TOTAL	7,632	9,568	9,894	10,907	11,433	12,058	12,271	12,122

\*Preliminary.

\*\*Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed.

†Dry equivalent of skim milk, buttermilk, whey, and whole milk estimated fed on farms.  
Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

PROTEIN CONCENTRATES: ESTIMATED USE FOR FEED IN THE UNITED STATES,  
YEAR BEGINNING OCTOBER 1, 1937-41 AVERAGE AND 1945-1953\*

Protein Concentrate	Average 1937-41	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53**
	Thousands of tons							
Soybean cake and meal	1,258	3,745	3,383	4,158	4,518	5,718	5,640	5,510
Linseed cake and meal	481	370	606	620	670	732	520	478
Cottonseed cake and meal	1,958	1,434	1,953	2,271	2,382	1,854	2,650	2,670
Peanut cake and meal	74	98	122	96	94	130	98	44
Copra cake and meal	134	190	177	171	204	226	221	214
Gluten feed and meal	690	1,040	799	848	926	966	897	942
Tankage and meat scraps	728	740	823	854	842	882	946	1,000
Fish cake and meal	235	191	213	230	264	275	375	329
Dried milk products‡	142	115	90	95	100	100	100	100
Other milk products§	1,829	1,300	1,260	1,280	1,300	1,270	1,225	1,250
TOTAL	7,529	9,223	9,426	10,623	11,300	12,153	12,672	12,537

\*Domestic production plus imports, minus exports, and minus estimated utilization for food, industry and other nonfeed uses.

\*\*Preliminary.

†Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed.

‡Dry equivalent of skim milk, buttermilk, whey, and whole milk estimated fed on farms.

Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

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## SOYBEAN MEAL

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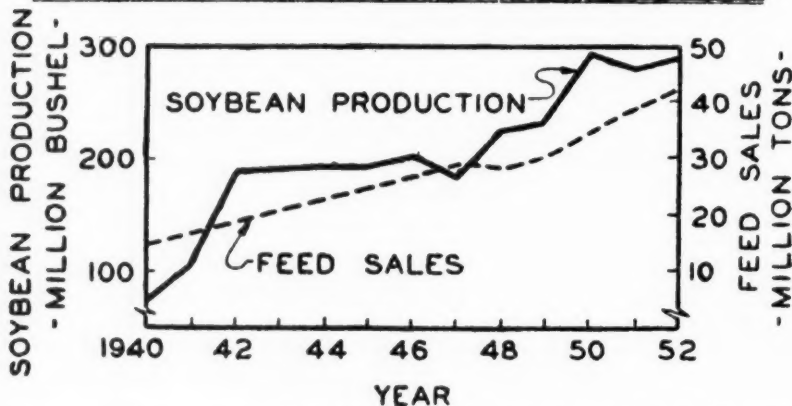
## OILSEED CAKE AND MEALS: SUPPLY AND DISTRIBUTION

Oilseed Cakes and Meals: Supply and Distribution, United States, Year Beginning October 1949-52  
(1,000 Tons)

Oilseed Cake and meal	SUPPLY				DISTRIBUTION			
	Stocks (Oct. 1) 1/	Production	Imports	Total	Feed	Other uses 2/	Exports	Stocks (Sept. 30) 1/
<b>1949-50</b>								
Soybean	13	4,586	26	4,625	4,518	25	47	35
Cottonseed	98	2,497	105	2,700	2,382	40	124	154
Linseed	39	689	5	733	670	—	7	56
Peanut	1	139	6	146	94	—	49	1
Copra	7	154	57	218	204	—	0	14
<b>TOTAL</b>	<b>158</b>	<b>8,065</b>	<b>199</b>	<b>8,422</b>	<b>7,868</b>	<b>65</b>	<b>227</b>	<b>262</b>
<b>1950-51</b>								
Soybean	35	5,897	33	5,965	5,718	30	181	36
Cottonseed	154	1,723	91	1,968	1,854	30	13	71
Linseed	56	730	1	787	732	—	29	26
Peanut	3	151	1	155	130	—	24	1
Copra	14	149	66	229	226	—	1	2
<b>TOTAL</b>	<b>262</b>	<b>8,650</b>	<b>192</b>	<b>9,104</b>	<b>8,660</b>	<b>60</b>	<b>248</b>	<b>136</b>
<b>1951-52</b>								
Soybean	36	5,704	24	5,764	5,640	30	42	52
Cottonseed	71	2,524	202	2,797	2,650	30	35	82
Linseed	26	495	23	544	520	—	7	17
Peanut	1	94	5	100	98	—	2	—
Copra	2	122	104	228	221	—	—	7
<b>TOTAL</b>	<b>136</b>	<b>8,939</b>	<b>358</b>	<b>9,433</b>	<b>9,129</b>	<b>60</b>	<b>86</b>	<b>158</b>
<b>1952-53</b>								
Soybean	52	5,551	41	5,644	5,510	30	47	57
Cottonseed	82	2,673	136	2,891	2,670	30	49	3/ 142
Linseed	17	458	26	501	478	—	—	23
Peanut	—	42	4	46	44	—	—	—
Copra	7	116	97	220	214	—	0	6
<b>TOTAL</b>	<b>158</b>	<b>8,840</b>	<b>304</b>	<b>9,302</b>	<b>8,916</b>	<b>60</b>	<b>96</b>	<b>3/ 230</b>

1/ Stocks at processors' plants. 2/ Estimated quantities of soybean meal used for industrial purposes and cottonseed meal used for fertilizer on farms of cotton growers. 3/ Includes 29,000 tons owned by CCC and not stored at processors' plants. \*Less than 500 tons. U. S. Department of Agriculture Production and Marketing Administration.

## SOYBEAN PRODUCTION (MILLION BUSHEL) AND COMMERCIAL FEED SALES (MILLION TONS)



Growth of soybean production and the formula feed industry in the U. S. show parallel trends. Graph by E. K. Scheiter in report of the Congress of the International Association of Seed Crushers.

## U. S. SOY FLOUR PRODUCTION

Soybeans Used in the Production of Soy Flour and Grits, Year Beginning October 1, 1942-53<sup>\*</sup>  
1,000 bu.

	Low Fat	Full Fat
1942-43	4,645	1,875
1943-44	4,470	1,695
1944-45	1,865	910
1945-46	8,278	1,961
1946-47	9,193	440
1947-48	17,119	162
1948-49	3,445	198
1949-50	3,715	228
1950-51	2,915	276
1951-52	3,426	283
1952-53	2,799	250

\* Estimated from reports on production of soy flour on basis that one bushel of soybeans will yield either 39 lbs. of low fat flour or 48 lbs. of full fat flour.

## PRODUCTION, EXPORTS SOY FLOUR AND GRITS

SOY FLOUR AND GRITS: UNITED STATES PRODUCTION AND EXPORTS: 1935-53

Year beginning October 1	Production <sup>*</sup>			Exports		
	Full fat Products	Low fat and defatted products	Total	Commercial †	Military ‡	Total
	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.
1935-36			22,000			
1936-37			24,000			
1937-38			26,000			
1938-39			28,000			
1939-40			30,000			
1940-41			50,000			
1941-42	28,000	56,125	84,125			
1942-43	90,600	181,000	271,600	22,971		22,971
1943-44	77,185	174,280	251,465	100,540		100,540
1944-45	41,925	72,715	116,640	58,460	14,374	72,834
1945-46	50,914	322,761	373,675	183,642	3,604	187,246
1946-47	21,263	358,537	379,800	105,814	135,233	241,047
1947-48	7,746	667,633	675,379	479,674	74,879	554,553
1948-49	9,492	134,356	143,848	56,186		56,186
1949-50	10,960	144,874	155,834			
1950-51	11,348	115,680	125,028			
1951-52	12,248	133,626	145,874	7,925		7,925
1952-53	11,980	109,162	121,142	4,778		4,778

\* Based on reports of the Soy Flour Association supplemented by information furnished the War Food Administration by the industry for 1924-48 and the Bureau of the Census for 1949 to date. Data for 1935-41 are rough approximations used during the war years since no exact data were available.

† Reported by the Bureau of the Census—not available prior to 1943. Thus the first figure is for January-September 1943 only. Includes exports under the Lend Lease program.

‡ Shipments for military relief feeding furnished by the National Military Establishments for 1944-46 and by the Bureau of the Census for 1947. Beginning with January 1948 included with commercial exports. The export figures do not include purchases by the Military for its own use. Compiled by Agricultural Marketing Service, U. S. Department of Agriculture.

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## FATS AND OILS PRODUCTION

**FATS AND OILS: PRODUCTION FROM DOMESTIC MATERIALS AND OIL EQUIVALENT OF EXPORTED OILSEEDS, UNITED STATES, YEAR BEGINNING OCTOBER, 1937-53**

Item	Average		1949	1950	1951	1952 1/	1953 2/
	1937-41	1942-46					
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.
Butter (actual weight)	2,224	1,760	1,701	1,472	1,389	1,621	1,625
Lard and rendered pork fat	2,091	2,514	2,626	2,811	2,920	2,544	2,250
Edible beef fats 3/	225	197	168	158	173	217	200
Total, edible animal fats	4,540	4,471	4,495	4,441	4,482	4,382	4,075
Corn oil	173	221	242	243	223	238	235
Cottonseed oil	1,456	1,179	1,795	1,227	1,726	1,832	1,950
Edible olive oil	6	5	2	2	4	7	3
Peanut oil	87	4/128	184	190	123	53	*140
Peanuts (shelled), oil equivalent of exports for crushing abroad 5/		10	32	21			
Soybean oil	500	1,344	1,927	2,454	2,444	2,536	2,650
Soybeans, oil equivalent of exports 6/	31	24	128	272	167	316	
Total, edible vegetable oils	2,353	2,911	4,321	4,408	4,686	5,002	4,978
Inedible tallow and greases	1,303	1,782	2,150	2,343	2,268	2,605	2,530
Fish, whale and seal oils 7/	220	179	158	164	126	148	125
Total, soap fats and oils	4,523	4,952	5,908	5,507	5,394	5,753	5,675
Linseed oil 8/	361	579	726	808	554	501	625
Flaxseed, oil equivalent of exports 9/		107	49	78	55	107	
Fung oil	2	8	27	12	14	42	50
Castor oil					8	13	25
Total, drying oils	363	588	802	899	631	556	700
Other fats and oils 11/	21	36	25	27	28	35	25
Grand Total	8,709	9,958	11,950	12,282	12,222	12,729	12,453

1/ Preliminary.

2/ Forecasts based on December 1 crop estimates and other indications.

3/ Edible tallow, oleo stock; oleo oil, and oleostearine. Beginning January 1949, use of edible tallow in pressing is subtracted from reported production of tallow.

4/ Excludes oil equivalent of Argentine peanuts imported in 1944.

5/ 43 percent of actual weight.

6/ 9 pounds per bushel, 1937-46; 9.8 pounds in 1949-51; 10.0 pounds in 1952.

7/ Excludes cod oil and fish liver oils.

8/ Excludes oil equivalent of imported flaxseed.

9/ 19.8 pounds per bushel.

10/ Less than 500,000 pounds.

11/ Neat's foot oil, wood grease, eod and fish liver oils, and vegetables oils not reported separately by kind.

\*Actual level will depend on CCC sales policy.

Compiled from reports of Bureau of the Census, Fish and Wildlife Service, and U. S. Department of Agriculture. Totals computed from unrounded numbers.

## ESTIMATED WORLD PRODUCTION OF OILS AND FATS

Metric Tons (000)s (In Terms of Oil or Fat)

	Pre-War	1951	1952 Preliminary	1953 Forecast
U. S. A.	5,543	5,443	5,471	5,307
Argentina and Brazil	995	1,212	994	1,039
Other America	562	860	968	970
TOTAL AMERICA	5,100	7,517	7,433	7,316
Western Europe (sixteen countries)	2,914	2,776	2,712	2,875
Western Europe (sixteen countries) (Whale Oil)	421	561	633	675
Other Europe	1,231	967	990	1,006
TOTAL EUROPE	4,568	4,104	5,015	4,156
West Africa	1,132	1,402	1,541	1,592
Other Africa	370	561	601	610
TOTAL AFRICA	1,502	1,963	2,142	2,202
India and Pakistan	2,274	2,104	2,106	2,031
Ceylon and Burma	216	226	245	256
Indonesia and Malaya	931	894	781	779
Philippines	452	639	576	518
China and Manchuria	3,341	3,101	2,926	2,995
Australasia and Oceania	575	383	614	645
Other Asia (excluding U.S.S.R.)	628	573	636	687
TOTAL ASIA AND OCEANIA	8,417	8,120	7,894	7,911
TOTAL WORLD (excluding U.S.S.R.)	19,587	21,704	22,494	21,605
TOTAL WORLD (including U.S.S.R.)	21,587	23,641	24,536	23,656

From J. C. A. Faure in Congress of the International Association of Seed Crushers report, 1953.



## PRODUCTION OF SOYBEAN OIL

SOYBEAN OIL, CRUDE BASIS: PRODUCTION, TRADE, STOCKS DECEMBER 31, AND APPARENT DISAPPEARANCE, 1930-1953

Year	Factory Production	Imports*	Exports	Re-exports	Net Imports or Net Exports (-)	Factory and Warehouse Stocks Dec. 31	Apparent Disappearance
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
1930	14,387	8,348	4,962	517	2,869	15,178	17,709
1935	105,056	14,349	4,111		10,138	31,090	101,111
1940	533,224	4,849	15,954		-11,105	94,555	499,126
1941	585,629	739	12,066		-11,307	113,020	555,857
1942	761,582		19,428		-19,428	144,139	711,005
1943	1,333,751		57,351		-57,351	186,566	1,133,973
1944	1,345,823		79,513		-79,513	123,323	1,229,663
1945	1,391,639		40,463		-40,463	399,347	1,265,163
1946	1,454,339		90,444		-90,444	163,937	1,409,308
1947	1,542,984	71	109,769		-109,698	146,308	1,451,024
1948	1,604,320	365	85,669		-85,304	193,199	1,472,025
1949	1,859,066	239	363,981		-363,742	150,101	1,832,896
1950	2,074,702		299,790		-299,790	154,065	1,770,948
1951	2,472,838		503,717		-503,717	281,391	1,841,795
1952	2,478,046	2	223,028		-223,026	237,390	2,299,019
1953 Jan. Sept.	1,839,907		39,744		-39,744	917,404	1,863,148

Prepared by Agricultural Marketing Service, U. S. Department of Agriculture. Compiled from reports of the Bureau of the Census. Stocks and trade Jan. 1942 Dec. 1948 are crude oil plus refined oil converted to crude basis by dividing by 0.94. Trade figures not separately reported as crude and refined before July 1941. Apparent disappearance computed from data on production, trade, and stocks. \*Imports for consumption beginning January 1941. †Less than 400 pounds. ‡

§Preliminary. \*September 30.

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Arkansas

## SOYBEAN OIL UTILIZATION

**Soybean Oil, REFINED: Factory Consumption, by Uses, in the United States, 1950, 1951, 1952  
and first three quarters of 1953**

	1950	1951	1952	1953		
				First Quarter	Second Quarter	Third Quarter
				Thousands of Pounds		
Total consumption	1,626,638	1,757,211	2,073,020	559,320	511,749	568,128
Processing:						
Fat splitting	1/				1/	
Hydrogenation	524,353	600,635	895,033	291,891	243,888	287,806
Sulphonation	655	684	579	138	147	140
Winterizing	1/	1/	1/	1/	1/	1/
Pressing						
Deodorizing (whole oil)	87,022	137,841	97,839	22,003	31,946	42,038
Other processing	1/	6,567	1/	1/	1/	1/
Edible products:						
Shortening	649,328	524,074	591,003	121,407	114,775	113,496
Margarine	31,896	68,871	80,425	16,243	14,718	16,017
Other edible	74,887	84,157	88,772	27,440	26,801	29,651
Inedible products:						
Soap	1/	433	472	1/	1/	1/
Chemicals	1/	1/	1/	1/	1/	1/
Paint and varnish	82,848	57,486	67,099	19,430	19,584	17,164
Lubricants and greases	188	221	159	38	61	56
Linoleum and oilcloth	1/	1/	1/	1/	1/	1/
Other inedible products	63,659	87,146	99,992	21,835	19,059	15,054

1/ Not separately reported for part or all of period.

Table prepared in Agricultural Marketing Service, U.S.D.A., from data reported by the Bureau of the Census.

**Soybean Oil, CRUDE: Factory Consumption, by Uses, in the United States, 1950, 1951, 1952  
and the first three quarters of 1953**

	1950	1951	1952	1953		
				First Quarter	Second Quarter	Third Quarter
				Thousand of Pounds		
Total consumption	1,835,069	2,029,593	2,354,113	698,081	695,716	622,000
Used in refining	1,781,627	1,976,114	2,279,862	617,031	583,214	597,501
Total use other than in refining	53,442	53,479	74,251	21,050	22,502	24,499
Processing:						
Fat splitting	1/	1/	1/	1/	1/	2,499
Hydrogenation	1/	1/				
Sulphonation	1/	1/	1/	56	40	1/
Other Processing	23,823	24,038	44,126	14,469	14,802	16,818
Edible products:						
Shortening	1/	1/				
Other edible	1/	1/	1/			
Inedible products:						
Soap	1,324	1,344	1,105	278	219	196
Chemicals	1/	1/	1/		1/	
Paint and varnish	4,188	3,252	6,101	1,491	1,507	1,350
Lubricants and greases	1/	395	414	103	1/	1/
Linoleum and oilcloth	1/	1/	1/	1/	1/	1/
Other inedible products	18,364	15,513	19,069	3,963	3,662	3,287

1/ Not separately reported for part or all of period.

Table prepared in Agricultural Marketing Service, U.S.D.A., from data reported by the Bureau of the Census.

**Additional copies of the Soybean Blue Book may be purchased from the  
American Soybean Association, Hudson, Iowa, by members for \$1.**

# SOYBEAN OIL UTILIZATION

SOYBEAN OIL: UTILIZATION BY CLASSES OF PRODUCTS, UNITED STATES, 1931-53

Year	Food products					Nonfood products					Total	Total domestic disappearance
	Margarine	Shortening	Other*	Total	Soap	Paint and varnish	Other drying oil products†	Miscellaneous non-food products	Loss, incl. oil in foots‡			
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds			
1931	622	10,869	7,261	18,752	3,816	6,256	3,773	923	1,625	16,393	35,145	
1932	2	4,889	14,196	19,088	5,571	7,485	5,139	844	1,158	20,197	39,257	
1933	7	489	9,153	9,649	4,235	8,568	7,150	1,182	867	22,002	31,651	
1934	24	2,735	10,284	13,043	1,354	10,431	4,062	949	823	17,639	30,682	
1935	17,460	52,452	21,366	75,558	2,549	13,003	5,784	749	5,468	27,553	103,111	
1936	14,261	113,897	59,270	187,428	5,023	14,471	4,821	1,532	8,959	34,806	222,234	
1937	31,791	90,798	20,037	142,626	10,274	16,143	2,685	1,367	9,926	40,395	183,021	
1938	39,885	137,133	79,247	256,265	10,897	15,183	6,601	2,403	14,006	49,130	305,395	
1939	70,822	201,599	117,297	389,718	11,177	21,720	11,633	4,199	16,265	64,994	454,712	
1940	87,103	212,317	107,468	406,888	17,612	29,828	16,432	7,442	20,924	92,238	499,126	
1941	75,634	215,967	140,147	431,748	24,737	41,594	20,816	10,550	36,412	124,109	555,857	
1942	133,446	335,555	129,570	598,431	31,510	25,307	8,115	6,132	41,540	112,604	711,035	
1943	198,620	568,405	205,263	971,888	15,428	20,462	18,512	14,884	92,999	162,285	1,133,973	
1944	211,105	620,257	274,856	1,106,218	3,558	19,105	17,543	14,295	69,184	123,385	1,229,603	
1945	206,642	683,011	242,769	1,132,422	4,219	25,634	20,133	16,443	66,322	132,741	1,265,163	
1946	200,681	743,527	292,744	1,236,952	3,545	30,435	26,490	24,443	77,440	172,353	1,409,305	
1947	227,595	705,280	248,047	1,180,922	5,375	89,491	69,316	26,737	69,184	270,103	1,451,024	
1948	255,213	707,530	239,211	1,201,954	2,794	100,195	61,728	32,308	73,046	270,071	1,472,025	
1949	257,287	712,154	235,933	1,205,374	1,991	109,893	90,415	45,556	79,667	327,522	1,532,896	
1950	305,791	839,641	312,801	1,458,233	1,448	107,261	78,599	43,160	82,245	312,715	1,770,948	
1951	471,560	730,295	348,153	1,550,008	1,677	87,762	63,332	54,851	83,665	291,287	1,841,295	
1952	652,129	850,451	408,445	1,911,028	1,577	119,999	88,546	73,424	104,445	387,991	2,299,019	
1953§ Jan.-Sept.	542,835	642,992	398,851	1,584,678	1,104	85,363	71,291	45,739	74,973	278,470	1,863,148	

## Percentage of Total Domestic Disappearance

	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1931	1.8	30.9	20.7	53.4	10.9	17.8	10.7	2.6	4.6	46.6	100.0
1932	6	12.4	36.1	48.5	14.2	19.1	13.1	2.2	2.9	51.5	100.0
1933	6	1.6	28.9	30.5	13.4	27.1	22.6	3.7	2.7	69.5	100.0
1934	1	8.9	33.5	42.5	4.4	34.1	13.2	3.1	2.7	57.5	100.0
1935	1.7	50.9	20.7	73.3	2.5	12.6	5.6	7	5.3	26.7	100.0
1936	6.4	51.2	26.7	84.3	2.3	6.5	2.2	7	4.0	15.7	100.0
1937	17.3	49.6	11.6	77.9	3.6	8.8	1.5	8	5.4	22.1	100.0
1938	13.1	44.9	25.9	80.9	1.6	5.0	2.1	8	4.6	16.1	100.0
1939	15.6	44.3	25.8	85.7	2.4	4.8	2.6	9	3.6	14.3	100.0
1940	17.5	42.5	21.5	81.5	3.5	6.0	3.3	1.5	4.2	18.5	100.0
1941	13.6	38.9	25.2	77.7	4.5	7.4	3.7	1.9	4.8	22.3	100.0
1942	18.8	47.2	18.2	84.2	4.4	3.6	1.1	9	5.8	15.8	100.0
1943	17.5	50.1	18.1	85.7	1.4	1.8	1.6	1.3	8.2	14.3	100.0
1944	17.2	50.4	22.4	90.0	3	1.5	1.4	1.2	5.6	10.0	100.0
1945	16.3	54.0	19.2	89.5	3	2.0	1.6	1.3	5.3	10.5	100.0
1946	14.2	52.8	20.8	87.8	3	2.2	2.6	1.7	5.4	12.2	100.0
1947	15.7	48.6	17.1	81.4	4	6.1	4.8	2.5	4.8	18.6	100.0
1948	17.3	48.1	16.3	81.7	2	6.8	4.2	2.2	4.9	18.1	100.0
1949	16.8	46.3	15.4	78.6	1	7.2	5.9	3.0	5.2	21.4	100.0
1950	17.3	47.4	17.7	82.4	1	6.1	4.4	2.4	4.6	17.6	100.0
1951	25.6	79.2	18.9	84.2	1	4.8	3.4	3.0	4.5	15.8	100.0
1952	28.3	77.0	17.8	83.1	1	5.2	3.9	3.2	4.5	16.9	100.0
1953§ Jan.-Sept.	29.1	44.5	21.4	85.0	1	4.6	3.8	2.5	4.0	15.0	100.0

Compiled as follows:

Utilization in margarine, 1931 through June 1950, from reports of the Commissioner of Internal Revenue; July 1950 and subsequently, from Bureau of the Census.

Utilization in other products, factory consumption, from Bureau of the Census, Animal and Vegetable Fats and Oils, except as noted.

\* Mainly utilization in salad and cooking oils, mayonnaise, and salad dressings, and direct use in homes, bakeries, restaurants and institutions. Includes unreported disappearance of soybean oil; that is, the difference between total domestic disappearance and total factory consumption, including loss and oil in foots.

† Difference between total estimated use in drying oil products and factory consumption in paint and varnish.

‡ Foots are used in nonfood products, largely in the manufacture of soap and fatty acids. Estimated since June 1942 as the difference between crude oil used in refining and production of refined oil.

§ Preliminary.

\* Less than .05 percent.

Prepared by Agricultural Marketing Service, U. S. Dept. of Agriculture.

## PRICES OF U. S. SOYBEANS

SOYBEANS: Average Price Received by Farmers, Monthly and Season Average, U. S., 1923-54

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season Ave.**
DOLLARS PER BUSHEL													
1923-24	2.09	2.10	2.11	2.23	2.26	2.41	2.40	2.44	2.49	2.60	2.51	2.33	2.28
24-25	2.23	2.16	2.16	2.39	2.64	2.76	2.77	2.81	2.70	2.71	2.40	2.38	2.46
25-26	2.27	2.18	2.17	2.38	2.33	2.39	2.27	2.37	2.67	2.71	2.31	2.27	2.34
26-27	1.97	1.85	1.83	1.90	2.03	1.98	2.07	2.15	2.20	2.14	2.06	1.91	2.01
27-28	1.86	1.69	1.61	1.70	1.69	1.85	1.93	2.06	2.13	2.12	2.01	1.89	1.81
28-29	1.72	1.69	1.70	1.82	1.93	2.13	2.19	2.30	2.41	2.46	2.15	1.87	1.88
29-30	1.79	1.70	1.72	1.85	1.91	2.00	2.07	2.11	2.16	1.96	1.90	1.80	1.88
1930-31	1.64	1.48	1.44	1.46	1.40	1.42	1.38	1.39	1.29	1.12	.94	.82	1.37
31-32	.52	.47	.47	.47	.48	.51	.51	.52	.51	.47	.47	.47	.50
32-33	.46	.45	.44	.45	.45	.48	.58	.86	.98	1.04	.94	.85	.54
33-34	.68	.69	.73	.81	1.01	1.16	1.26	1.25	1.45	1.54	1.25	1.03	.99
34-35	.95	.89	1.11	1.19	1.27	1.20	1.18	1.21	1.19	.98	.73	.69	.73
35-36	.68	.69	.72	.76	.77	.78	.78	.84	.85	1.05	1.19	1.10	.73
36-37	1.07	1.12	1.30	1.41	1.50	1.52	1.66	1.74	1.50	1.32	1.02	.90	1.27
37-38	.86	.81	.83	.88	.93	.89	.85	.87	.86	.85	.75	.71	.85
38-39	.64	.63	.67	.72	.69	.73	.78	.87	.83	.75	.64	.73	.67
39-40	.73	.82	.97	1.03	.96	1.01	1.00	.96	.79	.73	.67	.69	.81
1940-41	.67	.84	.81	.89	.84	.89	1.07	1.19	1.23	1.30	1.29	1.61	.90
41-42	1.42	1.43	1.47	1.65	1.78	1.79	1.76	1.73	1.63	1.62	1.58	1.57	1.55
42-43	1.58	1.58	1.59	1.59	1.60	1.65	1.67	1.72	1.73	1.70	1.68	1.69	1.61
43-44	1.80	1.80	1.81	1.82	1.85	1.89	1.91	1.93	1.93	1.91	1.90	1.93	1.81
44-45	2.04	2.05	2.05	2.06	2.10	2.13	2.13	2.15	2.17	2.16	2.12	2.07	2.05
45-46	2.06	2.09	2.09	2.09	2.11	2.12	2.14	2.16	2.17	2.16	2.12	2.07	2.05
46-47	2.28	3.09	2.75	2.93	3.00	3.67	3.62	3.91	3.07	3.09	3.07	3.05	2.57
47-48	3.11	3.41	3.69	4.11	2.97	3.23	3.64	3.74	3.90	3.66	2.91	2.45	3.33
48-49	2.27	2.36	2.36	2.27	2.05	2.12	2.08	2.18	2.10	2.27	2.60	2.14	2.27
49-50	2.69	1.95	2.09	2.11	2.12	2.25	2.48	2.71	2.80	2.93	2.42	2.26	2.16
1950-51	2.03	2.54	2.70	2.90	3.08	3.10	3.12	3.13	2.98	2.86	2.71	2.59	2.47
51-52	2.62	2.77	2.83	2.78	2.78	2.76	2.72	2.77	3.02	3.00	3.05	2.83	2.73
52-53	2.71	2.71	2.75	2.69	2.63	2.81	2.81	2.78	2.66	2.44	2.40	2.33	2.72
53-54	2.41	2.60	2.81										\$2.54

Source: Agricultural Marketing Service, U. S. Department of Agriculture. Monthly figures are average prices received by farmers on the 15th of the month. Season averages are crop-year average prices, by states, weighted by production to obtain U. S. average. \*Preliminary.

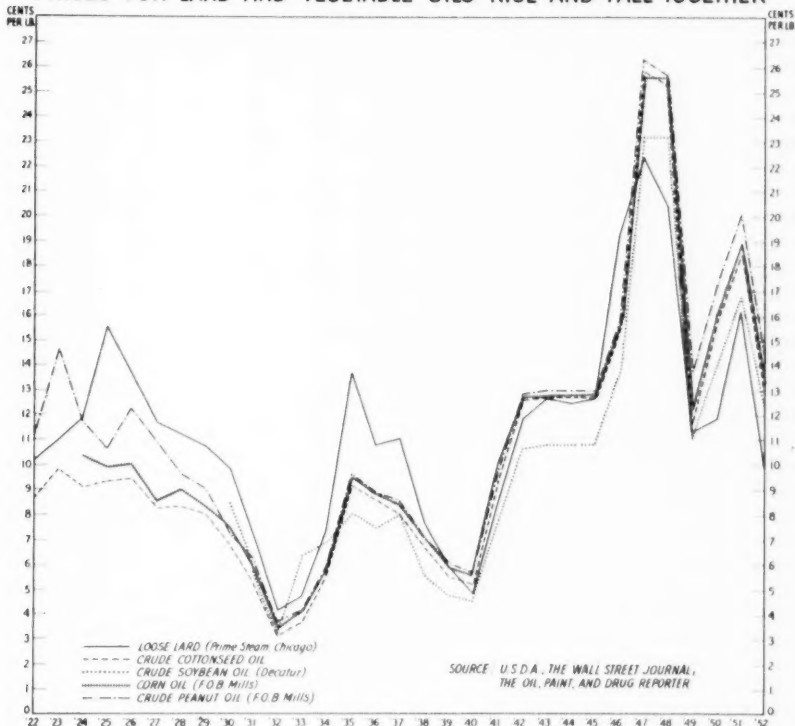
### SOYBEANS FOR CRUSHING:

Average Prices of No. 2 Yellow Soybeans, Bulk, in Carlots at Chicago, by Months, Oct. 1933-Dec. 1953\*

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season Ave.**
DOLLARS PER BUSHEL													
1933-34	.72	.73	.76	.79	.82	.82	.88	.90	.93	.94	.94	.72	.84
1934-35	.86	.96	1.24	1.27	1.29	1.13	1.10	1.07	.95				1.06
1935-36	.79	.81	.87	.88	.85	.82	.83	.85	.91	1.22	1.42	1.27	.96
1936-37	1.23	1.29	1.46	1.61	1.59	1.59	1.74	1.75	1.40	1.39	1.12	.98	1.43
1937-38	.98	.91	.95	1.00	1.04	.98	.92	.91	.88	.92	.86	.84	.93
1938-39	.74	.74	.81	.84	.82	.88	.89	.96	.93	.90	.81	.87	.85
1939-40	.87	.98	1.15	1.16	1.06	1.14	1.09	1.00	.81	.82	.81	.81	.96
1940-41	.83	.95	.96	1.02	.95	1.04	1.20	1.12	1.39	1.50	1.57	1.83	1.06
1941-42	1.58	1.60	1.67	1.83	1.98	1.92	1.83	1.80	1.72	1.74	1.71	1.71	1.68
1942-43					1.79	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.72
1943-44	1.88		1.86	1.87		1.94		1.92	1.95	1.94	2.04	1.90	1.90
1944-45				2.19	2.31	2.30	2.22		2.20		2.18	2.17	2.20
1945-46	2.11	2.18	2.18										2.13
1946-47	2.87	3.29	3.12	3.21						3.34	3.11	2.92	3.04
1947-48	3.39	3.66	3.93	4.21		3.59	3.86	4.02		3.78	3.22		3.80
1948-49	2.44	2.58	2.62	2.47	2.26	2.28	2.26	2.32	2.33	2.64	3.20	2.21	2.45
1949-50	2.23	2.19	2.31	2.31	2.36	2.48	2.69	3.11	3.00	3.12	2.92		2.29
1950-51	2.37	2.75	3.02	3.22	3.30		3.25		3.17	3.02		2.66	2.61
1951-52	2.92	2.92	2.90	2.83	2.82			2.92	2.82	2.69		2.57	2.88
1952-53		2.61	2.85										

\*Source: Agricultural Marketing Service, U. S. Dept. of Agriculture. Compiled as follows: Oct. 1933-May 1942 from **Chicago Daily Trade Bulletin**, June 1942 and subsequently from **Chicago Journal of Commerce**. Monthly prices, Oct. 1933-Sept. 1939, are simple averages of daily quotations, net truck price; monthly prices, Oct. 1939 and subsequently, are weighted averages of reported cash sales—computed by weighting daily selling price by number of carlots sold. \*\*Season average prices 1933-34 through 1948-49, are simple averages of monthly prices; beginning with 1949-50 the season averages are weighted by the monthly volume of cash sales.

## PRICES FOR LARD AND VEGETABLE OILS RISE AND FALL TOGETHER



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## IMPORTS, EXPORTS, SOYBEANS AND OIL

UNITED STATES: Trade in Soybeans and Oil and Total Trade in Fats and Oils,  
Annual 1950-52 and January-November 1953 (Oil equivalent)

Calendar Year	Exports			Imports	
	Total Fats and oils	Soybeans and oil	Percentage Soybeans	Total Fats and oils	Soybeans and oil
	1,000 Pounds	1,000 Pounds	Percent	1,000 Pounds	1,000 Pounds
1950	1,291,628	486,686	37.4	1,315,257	40
1951	2,294,315	744,576	31.1	1,178,923	15
1952	2,254,441	457,291	20.3	953,291	6
1953: Jan. Nov. 1/	2,216,367	193,663	17.8	883,304	21

1/ Preliminary.

United States Department of Agriculture, Foreign Agricultural Service, Fats and Oils Division, Washington, D. C.

UNITED STATES: Exports of soybeans and soybean oil and total exports in soybean equivalent, crop years October-September 1951-1952 and 1952-1953

Country of Destination	1951-1952 1/			1952-1953 1/		
	Soybeans	Soybean oil 2/	Total soybean equivalent	Soybeans	Soybean oil 2/	Total soybean equivalent
	1,000 bu.	1,000 bu.	1,000 bu.	1,000 bu.	1,000 bu.	1,000 bu.
Canada	4,286	11,951	5,507	4,529	16,495	6,167
Cuba	1	6,203	635	3/	4,088	408
Haiti		894	91		789	79
Mexico	2	3,681	378	3/	23	3
Netherlands Antilles		915	94		100	10
Panama, Republic of	3/	369	38		244	24
Chile		28,356	2,899			
Colombia		57	6		1,426	142
Peru		1,975	202			
Venezuela		17	2		21	2
Austria		1,899	194		3,775	377
Belgium Luxembourg	1,502	14,015	2,935	1,058	856	1,143
Denmark	258	542	314	1,448		1,448
France	1,418	76	1,426	218	1,208	338
Germany, Western	2	27,486	2,812	1,595	28,623	4,451
Iceland		533	54	3/	333	33
Italy	3/	20,203	2,066		4,966	496
Netherlands	1,476	88,609	10,536	2,723	17,513	4,471
Norway	745		745	676		676
Spain		5,090	520			
Sweden		2,259	231			
Switzerland	74	22,302	2,354		3,349	334
Free Territory of Trieste		233	24			
United Kingdom		27,326	2,794	84	1,631	247
Yugoslavia		1,817	186	184		184
Hong Kong				4	6	4
Israel	682	4,747	1,168	674	2,720	945
Japan	4,299		4,299	14,508		14,508
Korea				526		526
Taiwan (Formosa)	2,162	427	2,206	3,553	2,400	3,793
Philippines	139	106	130	136	21	138
Algeria					1,654	167
Tangier		22	2		127	13
Other countries	3/	1,379	142	1	1,494	151
TOTAL	17,016	273,489	45,010	31,908	93,882	41,228

1/ Preliminary. 2/ Crude and refined oil in terms of crude oil. 3/ Less than 500 bushels. Foreign Agricultural Service, U. S. Department of Agriculture. Compiled from official sources.

**Additional copies of the Soybean Blue Book may be purchased from the American Soybean Association, Hudson, Iowa, by members for \$1.**

## IMPORTS, EXPORTS CAKE AND MEAL

OILSEED CAKE AND MEAL: Imports and Exports, United States, year beginning October 1929-52

Year beginning October	Imports					Total	Exports					Total
	Cotton-seed cake and meal	Soy-bean cake and meal	Lin-seed cake and meal	Peanut cake and meal	Copra cake and meal		Cotton-seed cake and meal	Soy-bean cake and meal	Lin-seed cake and meal	Peanut cake and meal	Copra cake and meal	
	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons		1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons
1929	18.3	7.3	11.5	9.3	16.3	148.1	136.2	*	212.2	*	*	58.4
1930	3	24.0	19.1	12.2	10.9	47.5	55.1	*	204.9	*	*	260.0
1931	1.1	18.6	12.1	12.3	4.6	38.9	218.9	*	169.2	*	*	388.1
1932	3.0	28.3	11.2	12.3	7.1	51.9	145.8	*	168.0	*	*	313.8
1933	5.0	25.0	8.7	1.2	27.9	67.8	63.1	*	241.7	*	*	304.8
1934	47.4	64.2	19.2	3.5	51.5	176.8	2.9	*	205.5	*	*	208.4
1935	5.7	20.0	17.2	1.9	49.3	94.1	10.6	*	210.6	*	*	221.2
1936	26.8	35.7	15.9	9.6	71.0	181.0	12.6	*	328.8	*	*	341.4
1937	4.6	15.5	5.3	2.2	39.8	67.4	88.5	*	240.3	*	*	328.8
1938	1.4	12.1	7.8	10.5	53.9	88.9	11.6	35.0	286.6	*	*	313.2
1939	33.0	12.1	1.3	9.8	88.4	144.6	4.9	62.3	146.7	*	*	211.9
1940	32.2	8.1	6	7.5	84.0	152.4	9	25.4	4.8	*	*	21.1
1941	37.1	0	2	7.4	22.6	67.2	1.1	19.7	11.1	*	*	31.6
1942	46.8	0	1.0	4.6	0	52.4	1.7	20.9	4.2	1	1	37.0
1943	96.3	0	2.5	3.6	0	102.4	6	16.1	1.5	1	1	18.4
1944	87.4	0	10.0	2.5	1	100.0	1	10.0	7	4	1	11.2
1945	47.6	1	1.2	3.1	1.5	53.4	1	9	3	1	1	1.4
1946	15.6	0	1	1.1	5	17.2	5.3	141.7	4.6	26.2	5.1	182.9
1947	13.8	0	8.8	3.1	7.0	32.7	9.6	95.7	28.5	17	0	137.5
1948	39.4	3.2	8.1	9	44.3	95.9	121.7	150.1	54.0	21.1	0	346.9
1949	104.8	26.1	4.8	6.2	56.4	198.3	123.6	47.4	6.5	48.9	0	226.4
1950	90.7	32.8	1.0	1.1	65.8	191.4	13.2	181.1	29.2	24.0	.3	247.8
1951	201.9	24.1	23.3	5.2	104.2	358.7	35.0	41.8	7.0	2.2	2	86.0
1952	135.6	41.1	26.4	3.5	97.1	303.7	48.7	46.8	2	2	2	95.5

(Calendar year following. \*Not separately reported. †Less than 50 tons. Compiled from data of the Bureau of Foreign and Domestic Commerce, and Bureau of the Census. Table prepared by the Agricultural Marketing Service, U. S. Dept. of Agriculture.

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Here's the fully equipped grain elevator that has made the Port of Mobile one of the first four grain ports of the nation. Let this great facility handle your shipments!

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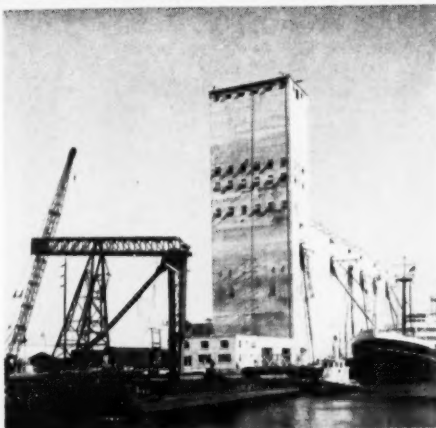
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Marine Leg for Unloading Barges

Truck Dumper for Unloading Trucks

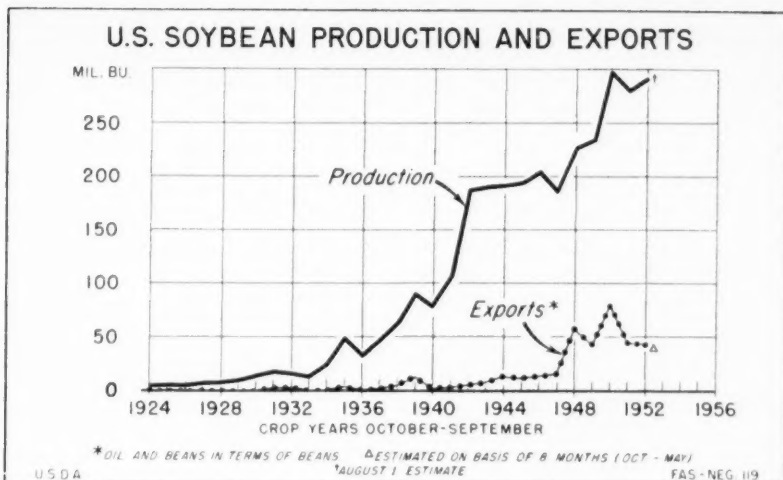
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## ALABAMA GRAIN ELEVATOR COMPANY, INC.

MOBILE, ALABAMA





In response to wartime and postwar demands for oilseeds, United States farmers have increased soybean production sharply in the past decade. With the exception of the year 1947, soybean production expanded each year from 1941 until 1950, when an all-time high of 299 million bushels was produced.

During the crop year beginning October 1951, United States exports reached a peak of 79 million bushels of soybeans and oil in terms of soybean equivalent. Increased availability of fats and oils in many parts of the world resulted in a sharp decline in United States soybean and oil exports to only 45 million bushels in 1953. No further decline in exports is expected during 1953-54.

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- **ALKALI**, which is present in all masonry and will corrode the paint if allowed to get wet.
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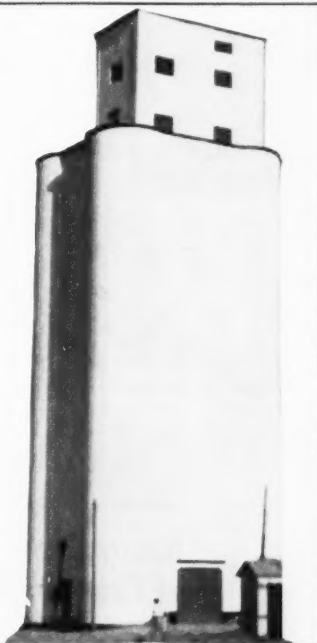
**PROVED BY SERVICE** — BINKOTE, in use more than 15 years, has been perfected both in the laboratory and on the job. Coatings which were applied 15 years ago are still in excellent condition. BINKOTE is tops in economy, easy to apply with brush, roller or spray.

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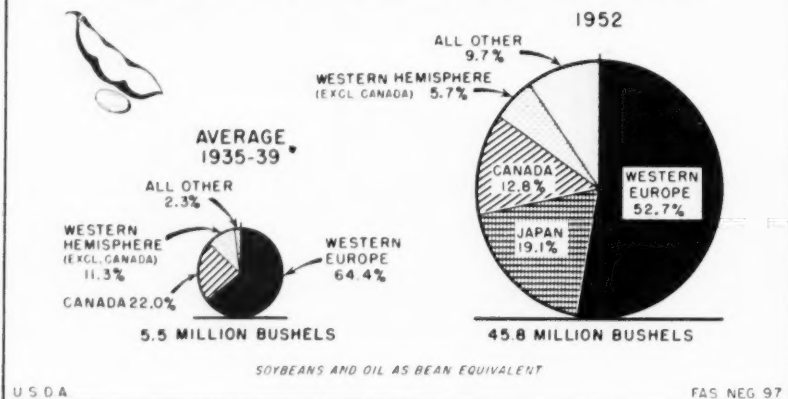
## Supply Service, Inc.

528 South Main • Hutchinson, Kansas

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## UNITED STATES EXPORTS OF SOYBEANS



Soybean and soybean oil exports from the United States in 1952 (calendar year) dropped sharply from the 1951 record high but were still more than eight times the quantity shipped in prewar years. Almost 85 percent of the total exports went to Western Europe, Canada, and Japan.



### ***Powdered Rock Phosphate Boosted Soybean Yield 6 Bushels Per Acre***

You can expect profitable increases in soybean yields if you use finely ground rock phosphate. Tests at the University of Missouri showed that 1,000 pounds per acre, applied before planting, increased the soybean yield by 6 bushels per acre. Soybeans require large amounts of phosphorus for healthy growth and large yields. Many growers have found that the most economical way to supply this vital plant nutrient is with **Four Leaf Powdered Rock Phosphate**.

Four Leaf is ground **finer than flour** — 85-90% will pass through a 200 mesh screen. It works down to root areas faster and is more quickly dissolved by the plant's own root acids and by decaying organic matter. An application of 1,000 pounds per acre will furnish enough phosphorus for this year's crop and for 7 or 8 future crops. Write for details today!

**Thomson Phosphate Department  
International Minerals  
and Chemical Corporation**

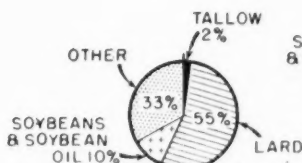
Dept. Soy, 20 North Wacker Drive, Chicago 6



# U. S. TRADE IN FATS, OILS AND OIL BEARING MATERIALS\*

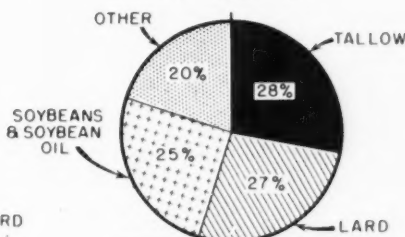
## EXPORTS

AV. 1939-41



533 MIL. LBS.

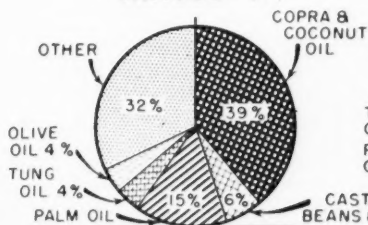
AV. 1950-52



2,237 MIL. LBS.

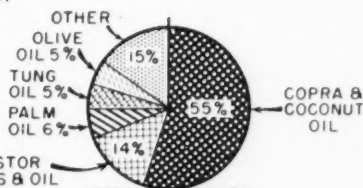
## IMPORTS

AV. 1939-41



1,824 MIL. LBS.

AV. 1950-52



1,173 MIL. LBS.

\*OIL EQUIVALENT

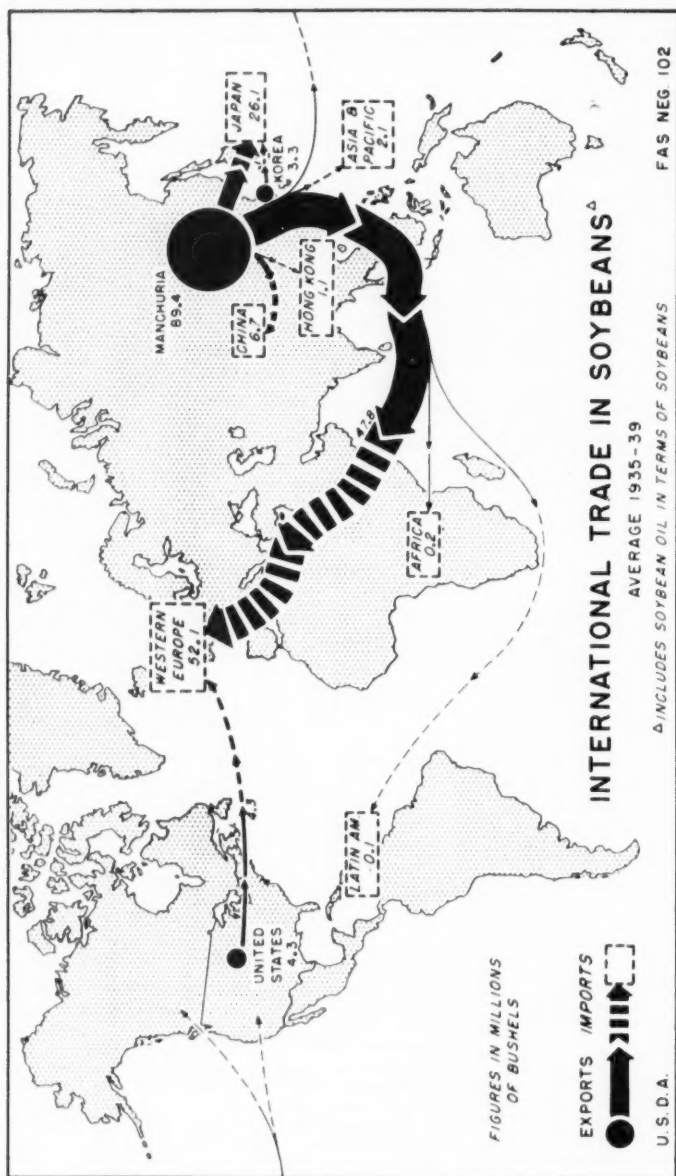
U.S.D.A.

FAS NEG. 144

The trade position of the United States in fats, oils, and oil bearing materials changed from that of a net importer by almost 1.3 billion pounds during the 1939-41 period to that of a net exporter by almost 1.1 billion pounds during 1950-52.

Soybeans and soybean oil, lard, and tallow head the list of American exports of fats and oils. Tallow and greases have accounted for 28 percent of the average total fat exports in the past 3 years in contrast to only 2 percent in the 3 year period immediately preceding World War II. While lard exports were double the prewar tonnage, they represented only 27 percent of the total exports compared with 55 percent prewar. Soybean and oil exports were 10 times the 1939-41 average and represented one-fourth the total exports against only one-tenth in the earlier period.

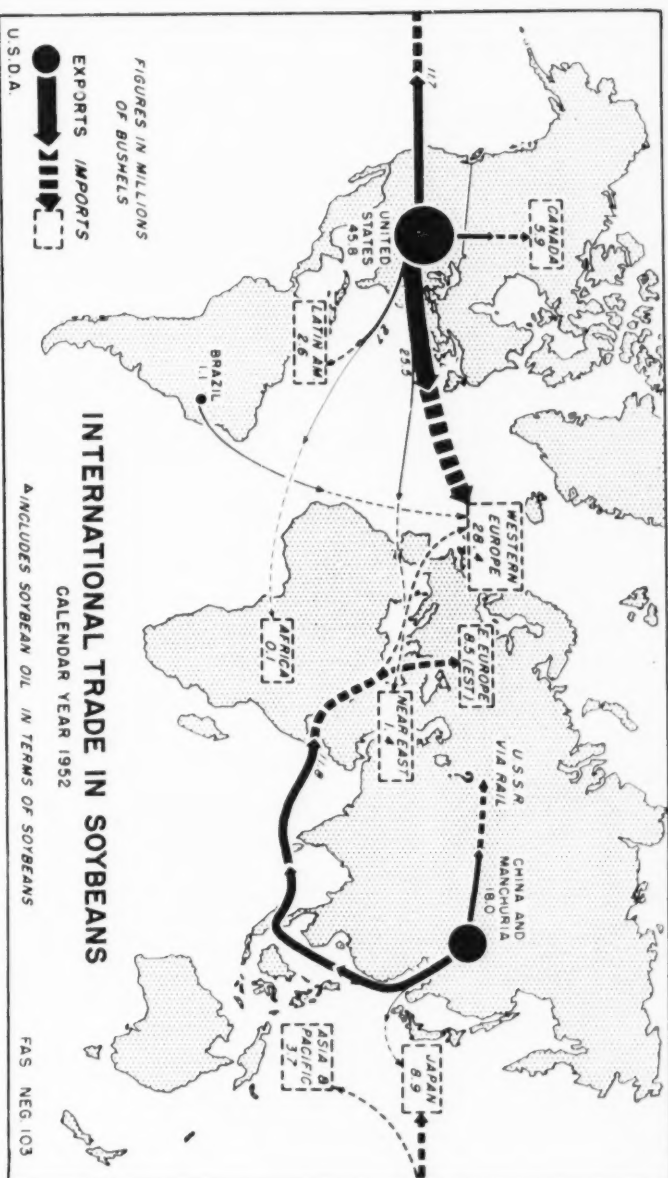
United States imports of fats and oils consist largely of tropical products not produced domestically. Some castor, tung, olive, and certain other oils are brought in, however, to supplement domestic production.



In the prewar period (1935-39) practically all soybeans in world trade came from Manchuria. Nearly 90 million bushels (including the wheat equivalent of soybean oil) were exported annually, mainly to Western Europe and Japan. Although the United States was the largest exporter of soybeans during this period, with annual shipments of 4.3 million bushels going to

Western Europe. Korea also exported a small quantity—all of which went to Japan.

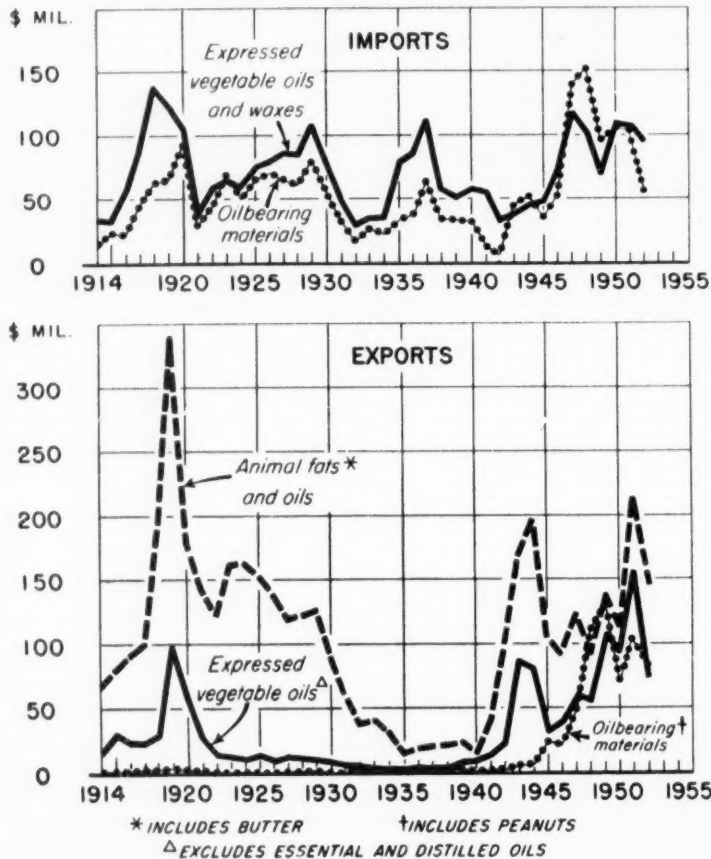
Heaviest prewar production occurred in China proper but China was the largest country soybeans and imported additional quantities from the Manchurian provinces of Manchuria. Japan, too, was both an important producer and importer.



For the calendar year 1952 the pattern of world trade in soybeans (including soybean oil) appeared to have shifted greatly compared with 1949-51. The United States was the largest exporter, with nearly 46 million bushels, and China and Manchuria were in second place, with about 18 million bushels.

Exports from both United States and China and Manchuria are down about one-half and one-third, respectively, from the crop year 1950-51. Imports into Western Europe are less than one-half of 1950-51 crop year. Exports in 1952 of over 1 million bushels of soybeans from Brazil to Europe, and Canadian imports from United States of about 6 million bushels, are both facts of interest to American soybean producers.

## VALUE OF U.S. IMPORTS AND EXPORTS OF FATS, OILS, AND OILBEARING MATERIALS



U.S.D.A.

FAS-NEG 44

The value of United States exports and imports of fats, oils, and oilbearing materials has fluctuated widely over the past 40 years, with both high prices and high volumes associated with the war periods. The value of postwar exports rose rapidly with greatly expanding volumes through 1951, but since then have declined sharply mostly because of lower priced exports. Inedible tallow and greases, which have been making up an increasing proportion of the exports, have been exceptionally low in price. The recent declines in the value of imports, particularly for oilbearing materials, is explained mostly by a drop in imports.

## UNIFORMITY

Made in modern refineries from carefully selected crude oil sources.

## PURITY

High purity that helps avoid non-recoverable residues. Low non-volatile content.

## MULTI-STORAGE AVAILABILITY

Can be shipped promptly from Baytown, Texas, or Bayonne, N. J., when you want it, where you want it.

## EFFICIENT SOLVENT RECOVERY

Narrow boiling range allows complete removal from extracted oil and meal.

## 6 good reasons why you can depend on Esso Hexane

Esso Hexane offers high quality combined with uniformity and dependability. Be sure to specify Esso Hexane for your processing and chemical requirements.

**Don't delay—call Esso today!**

Have you a special solvents problem? Write or call our office nearest you today — our technicians are ready and willing to assist you. And be sure to contact us for full information on the specifications and characteristics of Esso Hexane.

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Results from "balanced solvency." Recovered oil has good color and refining properties.

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Separate tank storage, pumping lines, tank cars and trucks are used throughout all Esso Solvent handling operations.



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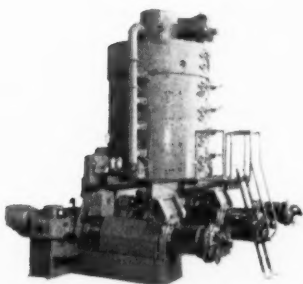


# THE *French Oil* *Mill Machinery Co.*

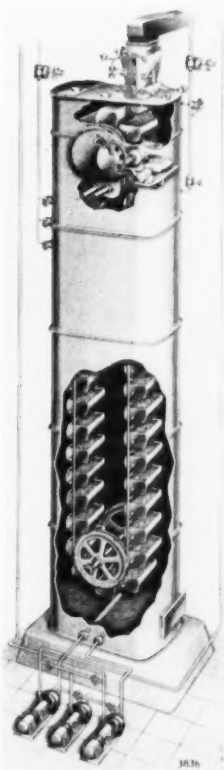
PIQUA, OHIO

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Golden dust-free meal  
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French Cooker Dryer mounted  
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French Vertical Solvent Extractor  
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**— DIRECT EXTRACTION OR PRE-PRESSING —**

## COMPOSITION OF SOY FOODS

Composition of Food, COMMON HOUSEHOLD UNITS

Food, description, and approximate measure	Food energy	Pro- tein	Fat	Total carbo- hydrate	Cal- cium	Phos- phorus	Iron	Vita- min A value	Thia- mine	Ribo- flavin	Nia- cin	Ascor- bic acid
	Cal.	Gm.	Gm.	Gm.	Mg.	Mg.	Mg.	I.U.	Mg.	Mg.	Mg.	Mg.
Soups, dehydrated:												
Navy bean, 1 oz. 1/	92	5.0	0.3	17.8	38	120	2.6	0	0.12	.05	0.6	Trace
Pea, 1 oz. 2/	94	5.8	.3	17.3	19	103	1.5	60	.16	.05	.9	Trace
Soybeans, whole, mature, dried, 1 cup (210 gm.)	695	73.3	38.0	3/73.1	477	1,231	16.8	230	2.25	.65	4.9	Trace
Soybean curd, 1 cake (2 1/4 by 2 1/2 by 1 in., 130 gm.)	85	8.4	4.9	3.6	120	114	1.8		.07	.06	.4	(0)
Soybean flour, flakes, grits:												
Low fat, 1 cup soy flour, stirred, (101 gm.)	230	45.1	1.1	3/38.1	268	629	13.1	79	1.11	.35	2.9	(0)
Medium fat:												
(a) 1 cup soy flour, stirred (88 gm.)	232	37.4	5.7	3/32.7	215	537	11.4	100	.72	.30	2.3	(0)
(b) 1 cup soy grits (138 gm.)	365	58.6	9.0	3/51.3	337	842	17.9	150	1.12	.46	3.6	(0)
Full fat, 1 cup (soy flour, stirred, 72 gm.)	250	25.8	14.8	3/21.5	140	398	8.7	100	.56	.20	1.6	(0)
Soybean milk (without added calcium and vitamins), 4 ounces	38	3.9	1.7	2.4	24	53	.8		.10	.05	.3	(0)
Soybean sprouts, raw, 1 cup (107 gm.)	49	6.6	1.5	5.7	51	72	1.1	190	.24	.21	.9	14

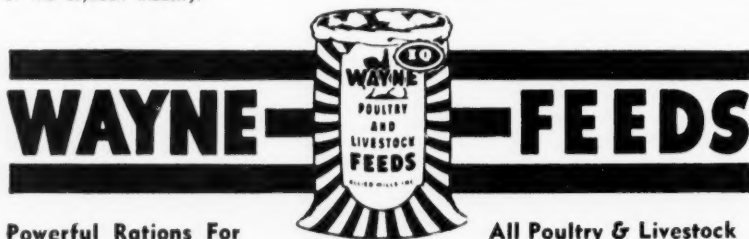
From U. S. Department of Agriculture Handbook No. 8.

## How ALLIED MILLS, INC. . . . Helps Make Soybeans More Profitable

If soybeans were purchased for oil alone, the price to growers would likely be far less than it is today. But by building a mass outlet for soybean meal as an important ingredient in WAYNE FEEDS, Allied Mills, Inc. helps the grower realize greater profits on his crop. In addition, special WAYNE soybean balancers increase efficiency of soybean feeding on the farm. For these reasons, every bag of WAYNE FEED used furthers the cause of the soybean industry.

### 4 GREAT PROCESSING PLANTS

1. OMAHA, NEBRASKA  
Feed Manufacturing, Soybean Processing
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Feed Manufacturing, Soybean Processing
3. PORTSMOUTH, VIRGINIA  
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## LEADING SOYBEAN VARIETIES

Characteristics and performance of most widely-grown varieties. List prepared by agronomists in soybean producing states.

### NORTHERN VARIETIES

**Adams** has averaged two or three days earlier in maturity than Lincoln and about the same in oil content, plant height and resistance to lodging. Adams beans are pale yellow with a light brown hilum (seed scar) while the plants have a gray pubescence (short hairs on stems, leaves and pods), white flowers and light straw-colored predominantly three-seeded pods.

**Blackhawk** has averaged five or six days earlier than Hawkeye and is characterized by pronounced upright growth, sparse branching, white flowers, gray pubescence, medium height, straw yellow beans with a light brown hilum and light brown predominantly three seeded pods.

**Capital** is of approximately the same maturity as Ottawa Mandarin and is characterized by its relatively poor resistance to lodging, white flowers, gray pubescence, medium height and straw yellow beans with a similarly colored hilum.

**Chief** has averaged approximately a week later in maturity than Lincoln, grows tall and is characterized by relatively poor resistance to lodging, gray pubescence, purple flowers, and normally two- to three-seeded pods. Chief beans are straw yellow and have a slate colored hilum with a brown outer ring.

**Clark** has proved superior to Lincoln in yielding ability but matures about a week later. Clark beans are straw yellow, nearly round and slightly larger than those of Lincoln and have a prominent black hilum. The plants are medium in height with some branching although most of the pods, usually two- or three-seeded, are borne on the main stem. Like Lincoln Clark plants have brown pubescence but unlike Lincoln they have purple flowers instead of white.

**Earlyana** is approximately of the same maturity as Blackhawk but is characterized by somewhat poorer resistance to lodging. This variety has brown pubescence, purple flowers, normally two- or three-seeded pods, while the beans are straw yellow with a pale hilum having a brown speck at one end of the hilum.

**Flambeau** is early, averaging a week to 10 days earlier than Ottawa Mandarin. Flambeau is characterized by brown pubescence, purple flowers and normally two- to three-seeded pods. Seeds of Flambeau are straw yellow with a black hilum.

**Goldsoy** has averaged approximately a week earlier in maturity than Ottawa Mandarin and is characterized by rather poor resistance to lodging. Goldsoy has gray pubescence, purple flowers and normally two- to three-seeded pods. Beans of Goldsoy are straw yellow with a similarly colored hilum.

**Harly** has averaged approximately five days later in maturity than Ottawa Mandarin and is characterized by purple flowers.

**Harmon** has brown pubescence, purple flowers, and normally two- to three-seeded pods. Beans of Harmon are straw yellow with a black hilum. In respect to maturity Harmon has been classified as a Group II variety, or in other words, approximating Hawkeye in time of ripening.

**Harosoy** has averaged about four days earlier in maturity than Hawkeye and is characterized by a gray pubescence and purple flowers with gray brown pods which are normally two- or three-seeded. Harosoy beans are straw yellow with a similarly colored hilum.

**Hawkeye** has averaged approximately six days earlier than Lincoln in maturity and is similar to Blackhawk in general appearance although it is slightly taller and has purple flowers instead of white. Hawkeye also has gray pubescence while its beans are straw yellow and moderately large with an imperfect black (black with a brown outer ring) hilum.

**Lincoln** has brown pubescence, prominent branches, moderate height, good lodging resistance, white flowers and dark brown, predominantly two- or three-seeded pods. Beans of Lincoln are straw yellow with a prominent black hilum and are moderate in size.

**Ottawa Mandarin** has averaged approximately nine days earlier than Blackhawk and approximately eight days later than Flambeau. Ottawa Mandarin is characterized by a gray pubescence, purple flowers, and normally two- to three-seeded pods. Ottawa Mandarin beans are straw yellow with a similarly colored hilum.

**Perry** has averaged about a week later than Chief or five days later than Wabash. Perry has gray pubescence, purple flowers, and dark gray, predominantly two- to three-seeded pods. The beans of Perry are straw yellow and moderately large with a black brown hilum.

**Renville** has averaged approximately three days later than Ottawa Mandarin or approximately six days earlier than Blackhawk. Renville is characterized by white flowers while its beans are straw yellow with a light brown hilum.

**Richland** is of approximately the same maturity as Hawkeye and has gray pubescence, purple flowers and normally two-seeded pods. Beans of Richland are straw yellow with a light brown to brown hilum. This variety is outstanding in resistance to lodging and has been used as a source of germ plasma in many crosses to develop lines of differing maturities which have greater lodging resistance and higher yields than Richland.

**Wabash** is approximately three days later in maturity than Chief, is considerably more resistant to lodging, and has a higher oil content than does Chief. Wabash is characterized by a gray pubescence, white flowers and light straw colored, predominantly two- to three-seeded pods.

—  
\*Canadian variety.

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WEST BEND ELEVATOR COMPANY  
WEST BEND, IOWA

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SHELDON, IOWA

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MASON CITY, IOWA

## SOUTHERN VARIETIES

(Listed in Order of Maturity)

**Dorman** is approximately 18 days earlier than Ogden, the leading variety planted in the Southern states. Dorman has given good results in the heavy clay soils of the Mississippi Delta from southeast Missouri to northeast Louisiana on the bottom lands of the Arkansas River in Oklahoma, and in eastern Virginia. In these areas, yields of Dorman have been very similar to those from Ogden. Dorman holds its seed very well, has good seed quality, and high oil content. The plants have heavy foliage and medium sized stems which dry out uniformly at maturity. In areas where Ogden can be grown, the primary advantage of an early variety such as Dorman is to lengthen the harvest period and thus permit harvesting a greater acreage per combine. Seed supplies of Dorman are still limited.

**S-100** is comparable to Dorman in maturity. S-100 has given best results in southeastern Missouri. In more southern or eastern areas, S-100 has a tendency to produce plants with heavy stems, which remain green after the seed is mature. This causes difficulty in combining. The narrow growth type does not shade out weed growth late in the season. S-100 averages considerably lower in oil content than other commonly grown varieties.

**Dortchsoy 67** averages five days later in maturity than Dorman and 13 days earlier than Ogden. Dortchsoy 67 is in general adapted to the same area. Dortchsoy 67 produces yields comparable to Dorman, but is more subject to shattering. It has good oil content.

**Ogden** is the most widely grown variety in the South. It produces high yields of seed with a good oil content. Its moderate height makes it easy to combine. Its heavy foliage helps appreciably in keeping down late-season weeds and grasses. In areas which may have dry harvest periods such as are sometimes experienced in the Delta area of Mississippi, the acreage of Ogden should not exceed that which may be harvested in 15 to 18 days following maturity because of its tendency to shatter. The Ogden selections, Dortchsoy 2 and Hale Ogden 2, have given results similar to those from Ogden. Ogden is somewhat short for production on the lighter soils of south Alabama and west Florida.

**Dortchsoy 31** matures approximately 12 days later than Ogden. Its growth characteristics are very similar to those for Ogden, but it holds its seed much better. In relation to Roanoke,

Dortchsoy 31 has averaged lower in oil content and has usually yielded appreciably less than Roanoke in the Delta area of Mississippi and Louisiana because of its high susceptibility to the leaf disease target spot. This disease causes early defoliation.

**Roanoke** averages two weeks later in maturity than Ogden and grows six to eight inches taller. Roanoke produces good yields of high quality seed. It has the highest oil content of any variety grown in the United States. Roanoke will usually give higher yields than Ogden on the Upper Coastal Plain and Piedmont soils. In these areas, its added height is also an advantage. Roanoke has a tendency to lodge if planted too thick. In areas where it will mature, Roanoke makes an excellent variety to be grown along with Ogden to extend the harvest period. Roanoke has good seed holding properties.

**Jackson** is a new variety now being increased which is similar in maturity to Roanoke. Only limited quantities of seed will be available for 1951 planting. Jackson is adapted to much of the same area as Roanoke. It grows slightly taller than Roanoke and stands better. The added height of Jackson makes it well adapted for growing after oats or lupines in south Alabama, Georgia, and west Florida. Jackson produces excellent seed yields and has a high oil content. It holds its seed very well.

**CNS** matures approximately five days later than Roanoke. CNS should be considered primarily as a forage variety because of its low oil content. CNS 4 is very similar in its characteristics to CNS. The CNS strain 24, or sometimes referred to as Clemson strain 24, is similar to CNS in maturity but grows much taller. It also has low oil content.

**J.E.W. 45** matures eight to ten days later than Roanoke. It makes moderate growth and produces good seed yields with a fair oil content in its area of adaptation. J.E.W. 45 is best adapted for late plantings on the Upper Coastal Plain soils of South Carolina, Georgia, and Florida.

**Yelnanda** is similar in maturity and general production to J.E.W. 45 but is taller growing. It is best suited for late plantings.

**Improved Pelican** is a late-maturing, rank-growing variety, developed primarily to produce a heavy tonnage of green material for turning under in sugar cane fields. Because of its rank growth, Improved Pelican is difficult to combine, especially if planted too early. When planted in late June or early July, Improved Pelican can be combined with greater ease. In late plantings it produces good yields of high quality seed.

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## BEST ADAPTED VARIETIES

The map on opposite page shows the latest recommendations of agronomists in the soybean growing regions of the United States. Do not plant varieties north or south of their recommended latitudes.



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## PROCESSORS OF SOYBEANS

Officers of firms are listed as follows: (1) president; (2) vice president; (3) secretary; (4) treasurer; (5) head soybean buyer; (6) oil sales manager; (7) plant superintendent; (8) meal sales manager; (9) plant manager. Brand names are in quotation marks. Type of processing equipment, tons per day, processing capacity, total storage capacity, phone numbers, and railroads serving the individual plant are listed. Information was obtained through questionnaires sent directly to processing companies. Established policy of some firms makes unavailable more complete information than is carried in this directory.

### ALABAMA

**Birmingham—FARMERS & GINNERS COTTON OIL CO.** Box 1408, Ave. F and 8th St. (1, 5, 8) J. V. Kidd; (2) E. P. Kidd; (2, 8) J. W. Kidd; (3, 4) C. L. Alsbrook; (7) E. A. Christie. Storage cap. 400,000 bu. 41% soybean oil meal. Served by BB, L&N RR.

**Birmingham—SOUTHERN COTTON OIL CO.** 4601 Georgia Rd. Ph. 9-2105. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) W. G. Hendrix; (9) S. E. Hosey.

**Cullman—SOUTHERN COTTON OIL CO.** P. O. Drawer 282. Ph. 900. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. Dist. mgr., F. W. Hurston. 8 hydraulic pr., cap. 70 t. "Seco Co" 45% protein soybean oil meal. Served by L&N RR.

**Dothan—DOTHAN OIL MILL CO.** P. O. Drawer 458. Ph. LD 1, 28800, 30900, 39840. (1) J. H. Bryson; (2, 5) J. H. Bryson, Jr.; (3, 4) W. D. Malone; (6, 8) J. B. Roberts; (7) E. L. Dillard; (9) R. R. Windsor. 2 screw pr., Anderson Exsoler process, hexane solv., cap. 90 t. Storage cap. 4,000 t. Served by ACT, CG, A&SA RR.

**Foley—BALDWIN OIL MILLS, INC.** Ph. 225. Affiliate of Sessions Co. (1) H. M. Sessions; (2) W. H. Reimer; (3, 5, 6, 9) E. E. Purvis, Jr.; (4) Paul Kaiser, Jr.; (7) Harold Adcock. Hexane solv., cap. 30 t. Storage cap. 198,000 bu. "Baldwin Oil Mills" soybean oil meal; "Gateway" mixed feeds. Served by L&N RR.

**Headland—HOME FERTILIZER & COTTON OIL CO.**

**Montgomery 1—BUCKEYE COTTON OIL CO.** Dist. mgr., J. M. Seymour; (7) D. T. Thompson.

**Selma—BUCKEYE COTTON OIL CO.** Dist. mgr., J. A. Bates; (7) G. W. French.

**Uniontown—BUCKEYE COTTON OIL CO.** Dist. mgr., T. E. Goodale; (7) R. J. Patterson.

### ARKANSAS

**Blytheville—SWIFT & CO.** Main office Chicago. (7) L. S. Janet; (8) W. L. Morris; (9) J. E. Dicks. "Swift's" soybean oil meal.

**Fort Smith—FORT SMITH COTTON OIL CO., INC.** S. 6th and I St., P. O. Box 819. Ph. 2-0311, 2-051. (1) and gen. mgr., W. H. Lillard; exec. vice pres. and mgr. feed and fertilizer div., M. E. Vaughan. 6 exp. 16 hydraulic pr. On MP and SLSF RR sidings.

**Helena—HELENA COTTON OIL CO., INC.** Ph. 4-2323. (1) O. W. Howe; (3) T. R. Kelly; (9) Joe C. Brady. Hexane solv., cap. 100 t. Storage cap. 1,000,000 bu. "Helco" soybean oil meal and pellets. Served by MP, IC RR.

**Little Rock—BUCKEYE COTTON OIL CO.** Dist. mgr., F. H. Jarrell; (7) E. E. Kelley.

**Little Rock—ROSE CITY COTTON OIL MILL.** Box 950. (1) A. G. Kahn; (2) Mark Valentine; (3) W. M. Bruce, Jr.; (4, 9) W. F. Bates; (7) Floyd Fowler. 10 hydraulic pr., cap. 65 t. Storage cap. 150,000 bu. "Sure Shot" soybean oil meal. Served by MP, RI, SSW RR.

**Little Rock—SOUTHERN COTTON OIL CO.** Ph. 27-9277; LD 11, 144, 159. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) R. R. Castillow; (9) C. M. Smith. 32 hydraulic pr., cap. 110 t. "Seco Co" soybean oil meal. Served by MP RR.

**Newport—SOUTHERN COTTON OIL CO.** Ph. 872; LD 9, 5. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) N. L. Pugh, Jr.; (9) J. E. Doherty. Served by MP RR.

**Osceola—OSCEOLA PRODUCTS CO.** (1) D. S. Laney; (2) C. F. Tompkins; (3, 4, 5, 6, 8, 9) Ralph Woodruff; (7) T. W. Perkins; (7 solv.) O. M. Beckham. Allis-Chalmers hexane solv., cap. 125 t. Storage cap. 800,000 bu. "Osceola" soybean oil meal and pellets. Served by SLSF RR.

**Pine Bluff—PLANTERS FERTILIZER & SOYBEAN CO.** 1021 E. 5th Ave. Ph. 165, 166; LD ol. (5) and mgr., Geo. H. Dunklin; asst. mgr., Wm. H. Dunklin; (7) J. R. Huneycutt. 4 screw pr., cap. 80 t. Storage cap. 175,000 bu. "Razor-back" soybean oil meal. Served by MP, SSW RR.

**Prescott—NEVADA COUNTY OIL MILL.** Subsidiary of W. E. Cox & Sons. (1, 5) Ernest H. Cox; (3) Mrs. E. H. Cox; (7) R. Thompson. 2 exp., cap. 45 t. Storage cap. 3,000 tons. "Neveco" soybean oil meal.

**West Memphis—PERKINS OIL CO.** Office, P. O. Box 152 Memphis, Tenn. Ph. Memphis 5-4040. (1) T. C. Lee; (2) I. J. Litcher; (3, 4) W. A. Loewenberg; (7) C. H. Caldwell; (8) H. D. Tobias; (9) F. H. Ferrell. 4 screw pr., cap. 120 t. Storage cap. 750,000 bu. "Goldenrod" soybean oil meal. Served by SLSF, MP, RI RR.

**Wilson—BUCKEYE COTTON OIL CO.** Dist. mgr., C. H. Buchanan; (7) H. W. Gilbert.

**Wilson—WILSON SOYA CORP.** Ph. 2921, 2480. (1) R. E. L. Wilson III; (2) R. E. L. Wilson, Jr.; (3, 4) Hudson Wren; (5, 6, 7, 8, 9) R. A. Pratt. Hexane solv., cap. 100 t. Storage cap. 1,000,000 bu. "Wil Soy" soybean oil meal and pellets. Served by SLSF RR.

### CALIFORNIA

**Buena Park—GLIDDEN CO.** Main office Chicago. (3, 6, 8, 9) W. W. Stephens; (7) Clarence G. Henning. Screw pr. and ext. Storage cap. 500,000 bu. "Torch" soybean oil meal.

**Long Beach—SPENCER KELLOGG & SONS, INC.** Main office Buffalo.

## PROCESSORS—(Continued)

**Los Angeles 58—CALIFORNIA COTTON OIL CORP.**, 2901 E. 52nd St. Ph. Jefferson 6156. (1) R. F. Ingold; exec. vice pres., W. R. Coherly, Jr.; (2) Robert Ingold; (3, 4) D. F. Budd; (5, 6) Wiley Blair, 3rd; (7) H. F. Crosson. 12 screw pr., cap. 240 t. Storage cap. 500,000 bu. "Calico" soybean oil meal and pellets. Served by SP RR.

**Los Angeles 22—PACIFIC NUT OIL CO.**, 4615 Bandini Blvd. Ph. Angelus 1-0113. Office 2301 E. 52nd St. Subsidiary of California Cotton Oil Corp. (1) W. B. Coherly, Jr.; (2) D. L. Allison; (3) Robert Ingold; (4) C. W. Allison; (5, 6) Wiley Blair, 3rd; (7) Wm. D. Horne. 23 exp., cap. 280 t. Storage cap. 650,000 bu. Served by ATSF, UP RR.

**Norwalk—LIBERTY VEGETABLE OIL CO.**, P. O. Box 125. Ph. Logan 5-3001 Los Angeles. Subsidiary of Iowa Milling Co., Cedar Rapids, Iowa. (1, 5, 6) I. D. Sinaiko; (2) Joe Sinaiko; (3) Samuel Maston; (4, 8, 9) Wm. Sinaiko; (7) Gordon Lamberton. 4 screw pr., cap. 85 t. Storage cap. 175,000 bu. "Liberty" soybean oil meal. Served by SP RR.

**Oakland—ALBERS MILLING CO.**, 2700 7th St. Ph. Templebar 2-4750. Office 5045 Wilshire Blvd., Los Angeles 36. Subsidiary of Carnation Co. (1) A. P. Herold; (2) E. W. Kelner; (2, 5) W. P. Kyle; (2, 8) T. V. Cox; (3) S. A. Halgren; (4) H. E. Olson; (6) E. L. Dial; (9) F. H. Albers, Jr. 6 exp., cap. 110 t. Storage cap. 200,000 bu. "Albers" soybean oil meal, "Albers Quality Controlled" mixed feeds and pellets. Served by ATSF, SP, WP RR.

**Oakland 7—EL DORADO OIL WORKS**, Adeline St. Ph. Templebar 2-3892. Main office San Francisco. Also plant at Bayonne, N. J. (7, 9) James W. Fuller; (8) H. W. Witt. 25 screw pr., cap. 150 t.; hexane solv., cap. 80 t. Storage cap. 450,000 bu. "El Dorado" soybean oil meal. Soybean operations about 16%. Served by WF, SP RR.

**Richmond 4—PACIFIC VEGETABLE OIL CORP.**, 1145 S. 10th St. Ph. Landscape 4-4727. Main office San Francisco. (5) B. T. Rocca, Sr.; (5) B. T. Rocca, Jr.; (6) R. W. Hammond; (8) D. M. Dybbro; (9) E. W. Ferguson; prod. mgr., M. G. Langford. 4 exp., cap. 50 t.; hexane solv., cap. 80 t. Storage cap. 126,000 bu. "PYO" soybean oil meal and pellets. Served by SP, ATSF RR.

**San Francisco 4—EL DORADO OIL WORKS**, 311 California St. Ph. Exbrook 2-2036. Plants Oakland, Calif.; and Bayonne, N. J. (1) James W. Moller; (2) Manuel Igual; (2) C. W. Wikander; (3) F. W. Blaisdell; (4) C. D. West. "El dorado" soybean oil meal.

**San Francisco 7—PACIFIC VEGETABLE OIL CORP.**, 62 Townsend St. Ph. Douglas 2-0990. (1) B. T. Rocca, Sr.; (2) B. T. Rocca, Jr.; asst. vice pres. mfg., E. A. Hill; (3) Dudley F. Miller; (4) Ford M. Tussing; (5) James C. Taylor; (6) Richard W. Hammond; (7) Ernie W. Ferguson; (8) Dale Dybbro; (9) Maucell G. Langford. 5 screw pr., cap. 80 t. Storage cap. 368,000 bu. "PYO" soybean oil meal and pellets. Served by SP, ATSF, WP RR.

**Wilmington—VEGETABLE OIL PRODUCTS CO., INC.**, 401 Canal Ave. Ph. Terminal 47224; Los Angeles, Nevada 63251. (1) C. A. Roberts; (2) in charge of traffic, W. D. Wilke; (2, 7, 9) C. C. Hopper; (2, 8) S. T. Pattison; (3, 4) W. L. Myers; (5, 6) W. L. Dickinson. 4 exp., cap. 30 t. Storage cap. 60,000 bu. "Sun Ripe" soybean oil meal and pellets. Soybean operations 3,000 t. annually. Served by SP, UP, ATSF, HB RR.

## DELAWARE

**Millsboro—TOWNSEND'S INC.** Ph. 2771. (1) Sen. John G. Townsend, Jr.; (2, 3, 4) Preston C. Townsend; (5, 6, 7, 8, 9) John Phillips. Trichloroethylene solv., cap. 50 t. Storage cap. 250,000 bu. "Townsend's Inc." soybean oil meal, mixed feeds and pellets.

## FLORIDA

**Pensacola—SOUTHERN COTTON OIL CO.** Ph. 2114; L.D. 3. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (9) J. T. Murphy. 5 screw pr., cap. 100 t. "Sco-Co" soybean oil meal. Served by L&N, SL&F RR.

## GEORGIA

**Atlanta—BUCKEYE COTTON OIL CO.** (2) J. O. Wilson; eastern div. mgr., S. P. Cottraux. Dist mgr. for oil mill, W. P. Lanier; (7) W. H. Davis.

**Atlanta 1—POM CHEMICAL INDUSTRIES, INC.**, P. O. Box 1387. Plant Schoen St. (Lake-wood Heights). Ph. Dixie 1263. (1, 4) H. O. Bradley; (2, 5, 6, 8) H. A. Brennan; (3) A. E. Mayer; (7, 9) W. P. Stallings, Jr. Hexane solv., cap. 50 t. Storage cap. 72,000 bu. 44% protein solv. ext. soybean oil meal. Served by SOUT RR.

**Augusta—BUCKEYE COTTON OIL CO.** Dist. mgr., H. M. Henry; (7) J. G. Henry.

**Macon—BUCKEYE COTTON OIL CO.** Dist. mgr., J. P. George; (7) T. J. Doughman.

**Rome—ROME OIL MILL**, Ph. 6556. Main office Southern Cotton Oil Co., New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) T. F. Ford; (9) C. H. Lumpkin. "Rome" soybean oil meal. Served by SOUT, CG RR.

**Savannah—SOUTHERN COTTON OIL CO.**, Old Augusta Rd., P. O. Box 689. Ph. 2-7109. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) J. R. Woolsey; (9) U. F. Stewart. 16 screw pr., cap. 60 t. "Sco-Co" soybean oil meal. Served by CG RR.

**Thomasville—FARMERS PRODUCTS CO., INC.**, P. O. Box 860. Ph. 345; L.D. 59. (1) F. H. Searcy; (2) Mrs. Anna P. Searcy; (3, 4) M. A. Froberg; (5) E. P. Clements; (7) G. M. Smithson. 2 screw pr., cap. 40 t. Storage cap. 166,000 bu. "Farmpro" soybean oil meal. Served by ACL RR.

**Vidalia—VIDALIA COTTON OIL CO.**, Ph. 474, 406. (5, 8) and owner, W. F. Jenkins; (7) W. F. Reynolds. 9 hydraulic pr., cap. 50 t. Storage cap. 1,500,000 bu. Soybean oil meal. Soybean operations when advantageous. Served by MDS, G&F RR.

## ILLINOIS

**Alhambra—ALHAMBRA GRAIN & FEED CO.** Ph. 55. Branch at Marine, Ill. (1) T. E. Albrecht; (2) Joseph A. Long; (3) Clarence J. Ludwig; (4, 5, 6, 8, 9) Elmer H. Ruehrup; (7) Paul Bauer. 2 screw pr., cap. 40 t. Storage cap. 210,000 bu. at Alhambra and Marine. "AG&F" 41% soybean oil meal. Served by IC RR.

**Bloomington—FUNK BROS. SEED CO.**, 1300 W. Washington St. (1) Eugene D. Funk, Jr.; (5) A. M. Convis; (6, 8, 9) H. A. Abbott; (7) D. D. Walker. Hexane solv., cap. 200 t. "Funk's" soybean oil meal and "Munro Solv."

**Bloomington—RAILSTON PURINA CO.** Ph. 3823. Main office St. Louis. (5) R. G. Bromley; (7) J. L. Clark; (9) Nat. Morey. Hexane solv., cap. 300 t. Storage cap. 2,000,000 bu. "Purina Chows" mixed feeds. Served by GM&O, IC, ITC, NKP RR.

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## PROCESSORS—(Continued)

**Cairo**—CAIRO MEAL & CAKE MILLING CO., 36th and Sycamore Sts. Ph. 347. (1) A. T. Madra. Storage cap. 100,000 bu. "Miss Cairo" soybean oil meal. Served by IC, NYC RR.

**Cairo**—SWIFT & CO. Main office Chicago. (5, 9) W. B. Stone; (7) E. H. Eubanks; (8) W. L. Gunn. "Swift's" soybean oil meal.

**Champaign**—SWIFT & CO. Main office Chicago. (5, 9) N. P. Noble; (8) R. J. Hendrick; (7) C. W. Faulkner. "Swift's" soybean oil meal.

**Chicago 4**—ALLIED MILLS, INC., 3400 Board of Trade Bldg. Plants at Portsmouth, Va.; Omaha, Neb.; Peoria and Taylorville, Ill. (1) H. J. Buist; (2) L. T. Murphy; (2) E. D. Griffin; (2, 5) J. J. Quinlan; (3, 4) E. W. Lenz; (6, 8) H. T. Lyon. "Wayne" soybean oil meal, mixed feeds and pellets.

**Chicago**—BORDEN'S SOY PROCESSING CO., 105 W. Adams St. Div. of Borden Co., New York. (5, 6, 8) J. R. Pentis.

**Chicago**—CARGILL, INC., 122nd and Torrence Rd. Ph. ES 5-7255. Main office Minneapolis. (7) James Randall. Hexane solv. "Cargill" soybean oil meal. Served by CNW RR.

**Chicago**—CENTRAL SOYA CO., INC. Offices 3718 Board of Trade Bldg.; and 300 Fort Wayne Bank Bldg., Fort Wayne. "Central Star" soybean oil meal. "Control" lecithin. "Control" soybean oil products. "Master Mix" concentrates and complete feeds.

**Chicago 39**—GLIDDEN CO., soya products div., 1825 N. Laramie St. Also plants at Buena Park, Calif.; Indianapolis. (1) Dwight P. Joyce; (2) Willard C. Lighter; (3) R. D. Horner; (4) W. G. Phillips; (5) Carl Benson; (6) Gerald Daleiden; (7) Edward T. Wilhelm; (8) John Wicklund. Exp. and hexane ext. units. Storage cap. 2,000,000 bu. "Diamond G" and "4-Hi" soybean oil meal. Full fat screw press and extracted soy flour.

**Chicago**—SPENCER KELLOGG & SONS, INC. Main office Buffalo.

**Chicago**—SWIFT & CO., Union Stock Yards. Plants at Blytheville, Ark.; Cairo and Champaign, Ill.; Des Moines, Iowa; Frankfort, Ind.; Fostoria, Ohio. (1) John Holmes; (2) C. T. Prindle; (3) W. H. Soutter; (4) A. L. Bruckner; oil mill dept., Scott E. Cramer. "Swift's" soybean oil meal and pellets.

**Danville**—LAUHOFF SOYA CO. Ph. 1800. Subsidiary of Lauhoff Grain Co. (1) H. J. Lauhoff; (2) S. H. Young; (2) Ralph G. Golseth; (3) J. J. Young; (4) John D. Wilkinson. Hexane solv.

**Decatur**—ARCHER-DANIELS-MIDLAND CO., P. O. Box 1070. Ph. 5183. Main office Minneapolis. (9) R. S. White. Hexane solv. "Archer" 44% and 50.3% soybean oil meal; "Archer" pellets; defatted, low-fat, full-fat soy flour. Served by IC, ITC RR.

**Decatur**—CHECKERBOARD SOYBEAN CO., Citizens Bank Bldg. Ph. 8-2161. Also plant at Pana. Affiliate of Ralston Purina Co., St. Louis. (5, 9) R. E. Baer; (7) Ira Abbott. Hexane solv., cap. 253 t. Storage cap. 1,000,000 bu. Served by IC, WAB, ITC, NYC RR.

**Decatur**—DECATUR SOY PRODUCTS CO., 518 E. Gault St. (1, 5, 6, 8, 9) Jasper Giovanna; (2) A. Becker; (3, 4) Carl Sorling; (7) Jess Beck; asst. mgr. and traffic mgr., I. A. Hirsch. 9 exp., cap. 180 t. Storage cap. 500,000 bu. "Illini" soybean oil meal. Served by IC, PRR.

**Decatur**—SPENCER KELLOGG & SONS, INC. Main office Buffalo.

**Decatur**—A. E. STALEY MFG. CO., 22nd and Eldorado Sts. Ph. 3-4111. Also plant at Painesville. (1) A. E. Staley, Jr.; (2) E. K. Scheiter; (2) in chg. of mfg., R. E. Greenfield; (4) R. S. Bass; (5) K. J. Maltas; (6) refined, M. J. Longhous; (6) crude, J. W. Moore; (8) E. C. Lane. Exp. and hexane solv. "Staley's" soybean oil meal, mixed feeds, pellets and extracted soy flour and grits. Served by WAB, IC, B&O, ITC, PRR.

**East St. Louis**—COLCHESTER PROCESSING CO., 35th and Walnut. Ph. Upton 4-2290. (1) E. C. Andrews; (2, 8) E. L. McKee; (3, 4) E. F. Dunmeyer; (5, 6, 9) Wallace V. Weidner; (7) Clyde Karraker. 1 exp., cap. 22 t. Storage cap. 25,000 bu. "Colpro" soybean oil meal. Served by SOU RR.

**Galesburg**—GALESBURG SOY PRODUCTS CO., 1021 S. Henderson St. Ph. 4787. (1, 6) Max Albert; (2) Betty V. Uretz; asst. vice pres., Eleanor N. Simon; asst. vice pres., Lois H. Shaffer; (3, 4) Anna S. Albert; (5) E. E. Fletcher; (7, 9) V. J. Boettcher; (8) James B. Strong. Hexane solv., cap. 250 t. Storage cap. 400,000 bu. "Triple Value" soybean oil meal. Served by CB&Q, ATSF RR.

**Gibson City**—CENTRAL SOYA CO., INC. Main office Fort Wayne. (9) T. H. Allwein. Solv., cap. 600 t. Storage cap. 6,000,000 bu. "Central Star" soybean oil meal. "Control" lecithin. "Control" soybean oil products. "Master Mix" concentrates and complete feeds.

**Ipava**—IPAVA FARMERS PROCESSING CO. Affiliate of Ipava Farmers Elevator Co. Also at New Philby and Cuba. (1) P. J. Fleming; (2) L. S. Robinson; (3, 4) J. D. Larue; (5, 6, 8) Phil Suedecker; (7) Leland Fuster; (9) and gen. mgr., C. O. Suedecker. 2 French pr., cap. 37 t. Storage cap. 250,000 bu. "Ipo" soybean oil meal. "Top-Notch" mixed feeds and pellets. Served by CB&Q RR.

**Kankakee**—BORDEN'S SOY PROCESSING CO., Grinnel Road. Main office Waterloo, Iowa. Div. of Borden Co., New York. (7) Harry Merziman; (9) G. W. Harris. Solv., cap. 225 t. Storage cap. 900,000 bu. "Borden's" soybean oil meal. Served by NYC RR.

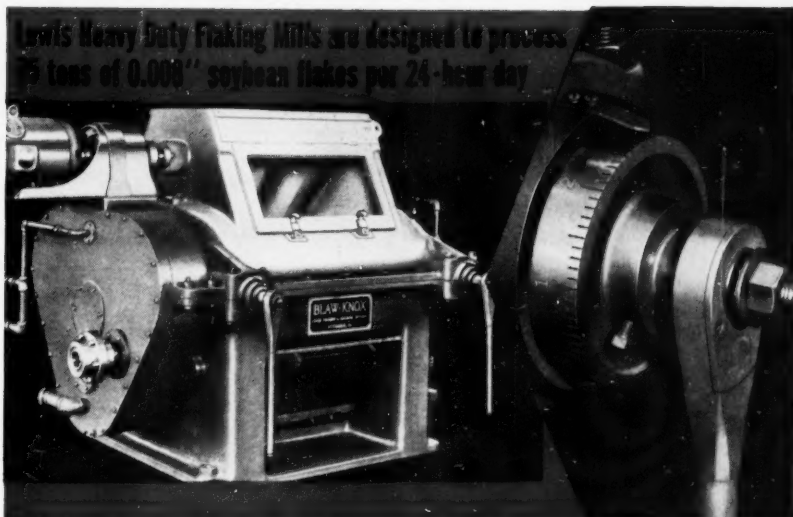
**Mascoutah**—PH. H. POSTEL MILLING CO., 2 W. Main St. Ph. LD 250. Plant 502 S. Railway. (1) Charles W. Postel; (2, 4, 6, 8, 9) J. W. Huegely; (3) Urban S. Postel; (5, 7) Tom Evans. 2 screw pr., cap. 36 t. Storage cap. 200,000 bu. "Postel" soybean oil meal, mixed feeds and pellets. Served by L&N RR.

**Monmouth**—RALPH WELLS & CO., 530 S. 3rd St. Plant 600 S. 3rd. (1) Ralph Wells; (2, 5) Willis H. Wells; (3, 9) Adrian R. Wells; (4, 6, 8) Norman Wells; (7) Garth Alexander. 2 exp., cap. 25-27 t. Storage cap. Monmouth, 210,000 bu.; Cameron, 15,000 bu.; Gerlaw, 10,000 bu. "Wells Pure Old Process" soybean oil meal. Served by CB&Q, M&STL RR.

**Nashville**—HUEGELY ELEVATOR CO. (1, 5, 6, 8, 9) J. W. Huegely; (2, 3, 4) Ralph Lesemann; (7) Joe Pavolish. 1 exp. Storage cap. 175,000 bu. "H" brand soybean oil meal. Served by L&N, M&I RR.

**Pana**—CHECKERBOARD SOYBEAN CO. Main office Decatur. Affiliate of Ralston Purina Co., St. Louis. 6 screw pr., cap. 150 t. Storage cap. 200,000 bu. Served by IC, C&EI RR.

**Peoria**—ALLIED MILLS, INC. Main office Chicago. (7) J. B. DeHaven, Jr.; (9) W. A. Stohrer. Exp. "Wayne" soybean oil meal, mixed feeds and pellets.

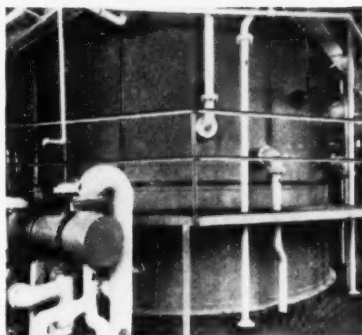


## Lewis positive micrometric control takes the guesswork out of roll adjustment

Precise roll adjustment is quickly established on the new Lewis Heavy Duty Flaking Mill. The positive, reversible ratchet control and graduated, adjustable screw gauge provide for a uniformly thin flake and greater oil yield during the extraction process.

All loads are carried on anti-friction bearings. Flaking and spreader rolls are direct-driven by gears. The self-contained, forced feed lubrication system has its own motor and pump. Oil pressure can be regulated at will.

Lewis Satin Finish Rolls assure the continuous passage of grit. The pitted surface overcomes the greasing action of the grain oils. Lewis rolls are beveled to prevent spalling.



Blaw-Knox Rotocel—installed capacity in excess of 1 million tons a year.

### Blaw-Knox Solvent Extraction Plants

The majority of all U.S. soybean extraction plants contracted for since 1947 have been designed and built by Blaw-Knox. In every instance, they have exceeded performance guarantees.

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### CHEMICAL PLANTS DIVISION

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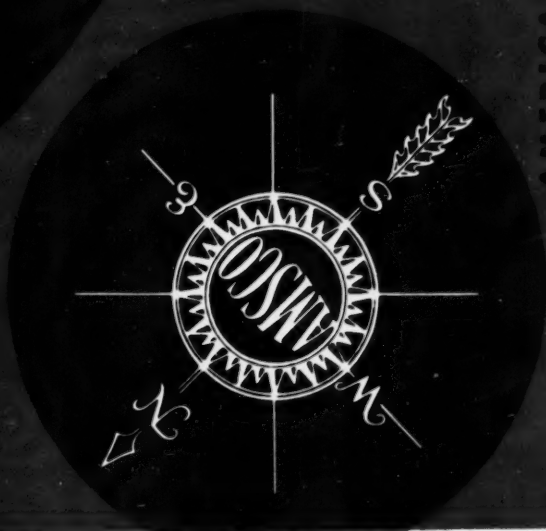


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SOLVENTS**

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Based on uniform high  
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leading extraction operators  
have chosen AMSCO petro-  
leum solvents for many years.



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- Terminal Elevator



Year round buyers of  
Soybeans, Corn, Wheat  
and Oats.



Always Prompt and  
Courteous Service

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## IOWA MILLING CO.

Soybean Processors



44% Soybean  
Oil Meal



Cedar Rapids, Iowa  
Phone 4-1503

## PROCESSORS—(Continued)

**Quincy—QUINCY SOYBEAN PRODUCTS CO.**, 1900 S. Front St. Ph. 6-1662. (1, 6) Irving J. Rosen; (2, 8, 9) Norman L. Rosen; (3) Arnold H. Rosen; (4) Marcella Rosen; (5) W. V. Simmons; (7) Carl Strothoff. French hexane solv., cap. 300 t. Storage cap. 1,100,000 bu. "Purity" soybean oil meal. Served by CB&Q, WAB RR.

**Roanoke—EUREKA MILLING CO.** (9) D. B. Hodel. 1 exp., cap. 15 t. Storage cap. 100,000 bu. "Emco" soybean oil meal and mixed feeds. Served by ATSF RR.

**Rock Falls—STERLING SOYBEAN CO. INC.**, 830 E. 10th St. Ph. Main 90. (1, 5) E. J. McGinn; (2) H. V. McGinn; (3, 8) O. L. McGinn; (4) J. C. Kram. 3 exp., cap. 60 t. Storage cap. 300,000 bu. "Old Process" soybean oil meal; "Cream-A" mixed feeds and pellets. Served by CB&Q, CNW RR.

**Springfield—ILLINOIS SOY PRODUCTS CO.**, P. O. Box 53. Ph. 2-3391. Plant, E. Sangamon Ave. Subsidiary of Iowa Milling Co., Cedar Rapids, Iowa. (1, 4) Joe Sinaiko; (2) I. D. Sinaiko; (3) Samuel H. Maslon; (5, 6, 8, 9) Eric Nadel; (7) D. D. Crites. 8 screw pr., cap. 150 t. Storage cap. 300,000 bu. "Capitol" soybean oil meal. Served by WAB RR.

**Taylorville—ALLIED MILLS, INC.** Main office Chicago. (7) P. G. Gottschalk; (9) L. L. Meriwether. Hexane solv. "Wayne" soybean oil meal, mixed feeds and pellets. Served by WAB, R&O RR.

**Vermont—BADER SOY PRODUCTS CO.** Ph. 48. Subsidiary of Bader & Co. (1, 5, 6, 8) B. B. Bader; (2) W. F. Bader; (3, 4) H. F. Chick; (7, 9) Frank Long. 1 screw pr., cap. 25 t.; hexane solv., cap. 40 t. Storage cap. 400,000 bu. at Vermont, Astoria, Rushville, Adair, Macomb, Swan Creek, Walnut Grove and Prairie City. "Bader's" 41% or 44% soybean oil meal; "Bader's Atomic" mixed feeds; "Bader's" pellets. Served by CB&Q RR.

**Virden—HULCHER SOYA PRODUCTS, INC.** (1) Norman E. Hulcher; (3, 4) Harold L. Foster; (5) Herman Helmerich; (7) John Curran. 2 exp., cap. 35 t. Storage cap. 225,000 bu. "Hulcher Old Process" soybean oil meal. Served by GM&O RR.

## INDIANA

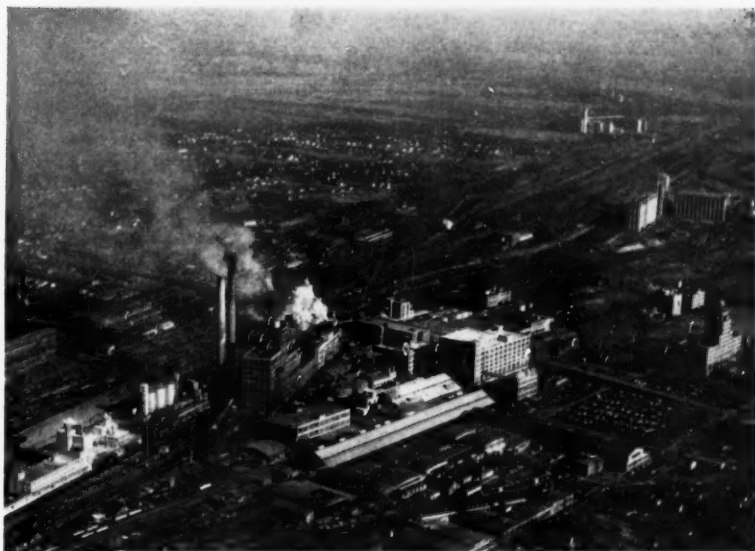
**Angola—ANGOLA SOYA CO.**, 424 N. Williams St., P. O. Box 358. Ph. 523. Partnership, Reginald Hale and Alfred Hale. Hexane solv., cap. 5 t. Storage cap. 1,400 bu. Soybean oil meal. Extractions of various specialty items. Served by NYC RR.

**Decatur—CENTRAL SOYA CO., INC.** Main office Fort Wayne. (9) C. I. Finlayson. Solv., cap. 1,400 t. Storage cap. 7,000,000 bu. "Central Star" soybean oil meal, "Centrol" lecithin, "Centrol" soybean oil products, "Master Mix" concentrates and complete feeds.

**Fort Wayne—CENTRAL SOYA CO., INC.**, 300 Fort Wayne Bank Bldg. Plants at Decatur; Gibson City, Ill.; Marion, Ohio. Chm. of board, Harold W. McMillen; (1) Fred W. Thomas; (2) Geo. D. MacLean; (2) Chas. W. Crowe; (2) Norman F. Kruse; (2) and dir. of sales, feed div., J. L. Krider; (2, 5, 6) W. E. Hage; (3, 4) Edward T. Schele; asst. secy. and asst. treas., John L. Andreas; asst. secy. and controller, Richard N. Allen; (8) B. A. Townsend. "Central Star" soybean oil meal, "Centrol" lecithin, "Centrol" soybean oil products, "Master Mix" concentrates and complete feeds.



# Staley's



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## **PIONEERS IN SOYBEAN INDUSTRY**

A. E. Staley Mfg. Co. has been recognized by the feed trade for many years as suppliers of dependable, high-quality feeds and feed ingredients. Hi-Pro-Con, the highest quality, 50% soybean oil meal made, as well as Staley's Soybean Oil meal are examples of Staley's leadership in research and manufacturing know-how.

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SOYBEAN BLUE BOOK

**A. E. STALEY MFG. CO.**

DECATUR, ILLINOIS

PAINESVILLE, OHIO

## PROCESSORS—(Continued)

**Frankfort—SWIFT & CO.** Main office Chicago. (5, 9) H. B. Parker; (7) A. J. Sibley; (8) J. H. Bramfield, Jr. "Swift's" soybean oil meal.

**Indianapolis—GLIDDEN CO.** 1160 W. 18th St. Main office Chicago. (5) M. M. Darling; (7) Clayton Vogt. Hexane solv., cap. 250 t. Storage cap. 1,500,000 bu. "Glidden Quality Products" soybean oil meal, mixed feeds and pellets.

**Lafayette—RALSTON PURINA CO.** Ph. 2-8421. Main office St. Louis. (7) N. R. Adkins; (9) Ralph M. Guenther. Hexane solv., cap. 325 t. Storage cap. 500,000 bu. "Purina Chows" mixed feeds. Served by WAB, NKP RR.

**Marion—HOOSIER SOYBEAN MILLS, INC.** 3rd and Nebraska St. (1) H. G. Hips; (5, 6, 8) Wm. E. Ohlemeyer; (7) M. B. McVicker. 5 exp. Storage cap. 285,000 bu. "Hoosier" soybean oil meal. Served by NYC, NKP, C&O, PRR.

**Peru—MID-STATES FATS & OILS CORP.** P. O. Box 365. Plant at Bunker Hill. (1) Paul J. Sicanoff; (3, 4) Geo. Shaw; gen. mgr., Oren P. Cochran. Served by PRR.

**Portland—HAYNES SOY PRODUCTS INC.** Ph. 62; plant 364-J. (1, 6, 9) Clarence E. Peters; (2, 4) W. H. Starbuck; (3) Max W. Shufelt; (5, 8) Walter V. Hilfiker; (7) Donald B. Lee. 4 exp., cap. 100 t. Storage cap. 285,000 bu. "Haynes" 41% soybean oil meal. Served by NKP, PRR.

**Rushville—RUSH COUNTY FARM BUREAU CO-OP ASSN., INC.** Ph. 3366. (1) J. R. Brown; (3) Red Gint; (5) L. Alsop; (6) Wayne Miller; (7) H. Earnest. 1 screw pr., cap. 15 t. Storage cap. 50,000 bu. "Farm Bureau Co-op" soybean oil meal, mixed feeds and pellets. Served by NKP, B&O, NYC, PRR.

**Wabash—WABASH COUNTY FARM BUREAU CO-OP ASSN., INC.** 414 S. Miami St. Plant 179 E. Sinclair St. Ph. 1435. Affiliate of Indiana Farm Bureau Co-op Assn. (1) P. J. Milam; (5, 6, 7, 8, 9) Dwain Amone; county mgr., Joe Wise. 1 screw pr., cap. 18 t. Storage cap. 150,000 bu. at soybean plant, Speicher and Treaty elevators. "Farm Bureau Co-op" soybean oil meal. Served by WAB, NYC RR.

## IOWA

**Belmond — GENERAL MILLS, INC.**, chem. div. Ph. 231. Main office Minneapolis. Grain buyer and office mgr., H. C. Stokke; (7) W. B. Hotvet. Hexane solv., cap. 250 t. Storage cap. 1,500,000 bu. "General Mills 44%" protein solv. (hexane) extracted soybean oil meal.

**Cedar Rapids—CARGILL, INC.**, 850 10th St. SW. Ph. 6148. Main office Minneapolis. (7) Ewald Gustafson; (9) C. W. Bohlander. Hexane solv. "Cargill" soybean oil meal. Served by CR, IC RR.

**Cedar Rapids—IOWA MILLING CO.**, 411 6th St. NE. Ph. 4-1503. (1, 4) Joe Sinaiko; (2) I. D. Sinaiko; (3) Samuel Maslon; (5, 6, 8) H. R. Scroggs; (7) Gilbert Kinzey; (9) Louis Langhurst. Hexane solv., cap. 300 t. Storage cap. 600,000 bu. at plant. "Hy-grade" soybean oil meal. Served by MILW RR.

**Clinton—PILLSBURY MILLS, INC.**, 200 Wilson Bldg. Ph. 1080. Headquarters feed and soy div. Main office, Minneapolis. (5) Earl Nielsen; (6) Fred Ehle; (6, 8) D. B. Long; (7) H. Eiken-

berry; (9) H. E. Smith. Hexane solv., cap. 250 t. Storage cap. 1,000,000 bu. "Pillsbury" soybean oil meal; "Pillsburys Best" mixed feeds and pellets. Served by CB&Q, MILW, CNW, RI RR.

**Des Moines—SPENCER KELLOGG & SONS, INC.** Main office Buffalo.

**Des Moines—SWIFT & CO.**, Box 38, Highland Park Station. Main office Chicago. (5, 9) C. D. Whitaker; (7) G. G. Scott; (8) C. J. Ander. "Swift's" soybean oil meal.

**Dike—FARMERS COOPERATIVE CO.** Ph. 2111. (1) Horace D. Brown; (2) Russell Meweers; (3) Edward Sherwood; (5, 6, 8) C. M. Gregory; (7) Gerald Bruns; office mgr., Richard Goetzinger. 2 screw pr., cap. 30 t. Storage cap. 510,000 bu. "Felco" soybean oil meal and mixed feeds. Served by CNW RR.

**Eagle Grove—BOONE VALLEY CO-OP PROCESSING ASSN.** Ph. 200, 201. (1) Ralph Olsen; (2) Harry Bernard; (3, 4) Floyd Crim; (5) James A. Farrell; (6, 8, 9) Edward Olson; (7) Chas. G. Loux; asst. mgr., Donald Laurent. Hexane solv., cap. 200 t. Storage cap. 140,000 bu. "Co-op" soybean oil meal, mixed feeds and pellets. Served by CNW, CGW RR.

**Fayette—FAYETTE SOYBEAN MILL.** Ph. 118. Owned by Chas. Halverson, West Union, Iowa; and C. J. Halverson, DeKalb, Ill. (6) C. J. Halverson; (9) Milton I. Eide. 2 screw pr., cap. 37 t. Storage cap. 170,000 bu. "Fayette" old process soybean oil meal. Served by MILW RR.

**Fort Dodge—BORDEN'S SOY PROCESSING CO.** Main office Waterloo, Iowa. Storage cap. 300,000 bu.

**Fort Dodge—CARGILL, INC.**, 5 Central Ave. Ph. Walnut 3781. Main office Minneapolis. (9) W. J. Wheeler. Exp. and hexane solv. "Cargill" soybean oil meal and pellets. Served by IC RR.

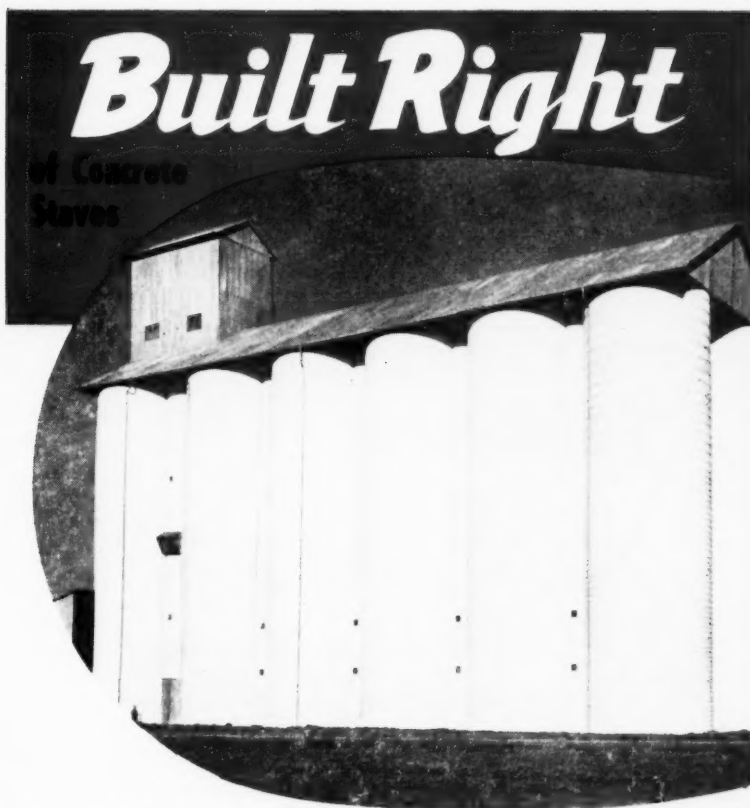
**Gladbrook—CENTRAL IOWA BEAN MILL.** Ph. 63. (1, 3, 5, 6, 7, 8, 9) Paul H. Klinefelter; (2, 4) Florence M. Klinefelter. 3 screw pr., cap. 50 t. Storage cap. 450,000 bu. "Soya, Chief of the Feeds" soybean oil meal. Served by CNW, CGW RR.

**Iowa Falls—RALSTON PURINA CO.** Ph. 2591. Main office St. Louis. (5) Barney McCoy; (7) Geo. W. Oswald; (9) H. N. Johnson. 7 screw pr., cap. 170 t.; hexane solv., cap. 300 t. Storage cap. 1,500,000 bu. "Purina Chows" mixed feeds. Served by RI, IC, CNW RR.

**Marshalltown — MARSHALL MILLS, INC.**, 201 Washington St. Ph. 9005. (1, 9) Fred Johnson; (2, 7) J. B. Saccaro; (3, 5, 6, 8) J. I. Johnson; (4) Vernon N. Johnson. 3 screw pr., cap. 70 t. Storage cap. 50,000 bu. 41% soybean oil meal. Served by M&StL, CNW, CGW RR.

**Mason City—NORTH IOWA COOPERATIVE PROCESSING ASSN.**, 1605 19th St. SW. (1) Earl M. Dean; (2) C. D. Daniels; (3, 4) Earl L. Dickenson; (5, 8) H. D. Rissler, Jr.; (6, 9) Glenn Pogeler; (7) Harold Tietjens. Hexane solv., cap. 150 t. Storage cap. 350,000 bu.; Manly, 130,000 bu. "Felco" soybean oil meal. Served by CGW, M&StL, RI, MILW, CNW, Mc&CL RR.

**Muscatine — HAWKEYE SOY PRODUCTS CO.**, 500 E. 2nd St. Ph. 740. Plant Front and Oak Sts. Affiliate of McKee Feed & Grain Co. Sole owner, L. R. McKee; mgr. H. G. McKee. 2 screw pr., cap. 30 t. Storage cap. 250,000 bu. "Hawkeye" soybean oil meal and pellets. Served by RI, MILW RR.



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## PROCESSORS—(Continued)

**Muscantine** — MUSCATINE PROCESSING CORP., 205 Green St., Ph. 2900, 1807. (1) S. G. Stein; (2) G. A. Kent; (3) F. J. Prochaska; (4) R. C. Kautz; (5) F. G. Hocking; (6, 7, 8) M. C. Larson; (7, 9) R. D. Stroup. Hexane solv., cap. 100 t. Storage cap. 500,000 bu. "Port City" soybean oil meal. Served by MILW, RI RR.

**New Hampton**—EASTERN IOWA MILLING CO. Owned and operated by G. A. Ward. 1 exp., cap. 20 t. Storage cap. 110,000 bu.

**Quimby** — SIMONSEN MILL-RENDERING PLANT. Ph. 16. (5, 6, 8) D. W. Simonsen; (7) Alton Simonsen; (9) M. W. Simonsen. 4 screw pr., cap. 50 t. Storage cap. 130,000 bu. "Simonsen" soybean oil meal, mixed feeds and pellets. Served by IC RR.

**Ralston**—FARMERS COOPERATIVE ASSN. Ph. 37. (1) Otis Knight; (2) Myron B. Gregory; (3, 4) Carl R. Cook; (5) William V. McDonald; (6, 8, 9) Karl Nolin; (7) Frank Smith. 3 screw pr., cap. 50 t. Storage cap. 1,250,000 bu. "Farmers" soybean oil meal; "Farmers Feeds" mixed feeds and pellets. Served by CNW RR.

**Redfield**—IOWA SOYA CO. Ph. 400. (1, 4) J. J. Vanier; (2, 9) Donald C. Ogg; (3, 6, 8) J. D. Frantz; (5) Byrle Spillers; (7) Donald Cameron. Hexane solv., cap. 350 t. Storage cap. 1,100,500 bu. "Redfield" soybean oil meal. Served by MILW RR.

**Sac City**—WILLIAMS MILLING CO. Gen. mgr., Leo W. Williams; (5) R. C. Hink; (7) Glenn Sams; (8) J. C. Laughlin. 4 exp., cap. 80 t. Storage cap. Sac City 260,000 bu., Nemaha 100,000 bu., Lake View 100,000 bu., Lytton 40,000 bu. "Williams" soybean oil meal, feeds and pellets. Served by MILW RR.

**Sheldon**—BIG 4 COOPERATIVE PROCESSING ASSN., 111 9th St. (1) Ed Dohbertin; (2) Doores Waanders; (3, 4) L. M. Penning; (5, 6, 9) Charles W. Hanson; (7) Reuel Jacobs; (8) Lee Alward. 4 exp., cap. 135 t. Storage cap. 55,000 bu. "Felco" soybean oil meal. Served by IC, MILW, CMO RR.

**Sioux City**—SIOUX SOYA MILLS, 11th and Clark Sts. Ph. 8-0174. Affiliate of Sioux Industries, Inc. (1) Mike Sherman; (2) E. N. Grieskin; (3, 4) Philip Sherman; (5, 8) Lew Sommar; (6, 8, 9) John Zipoy; (7) A. G. Kliwer; (7) R. P. Cole; traffic mgr., G. Dikeman; office mgr., V. W. Miller. 4 exp., cap. 85 t.; hexane solv., cap. 120 t. Storage cap. 500,000 bu. "Sn Soy" soybean oil meal and pellets; "Sioux" mixed feed. Served by IC, MILW, CNW RR.

**Washington**—CARGILL, INC., N. 15th St. and E. 3rd Ave. Ph. 820. Main office Minneapolis. (7) Raymond Roth; (9) Hugo Lensch. Hexane solv. "Cargill" soybean oil meal and pellets. Served by RI RR.

**Waterloo**—BORDEN'S SOY PROCESSING CO. Div. of Borden Co., New York. Also plants Fort Dodge, Iowa; Kankakee, Ill. (1) C. F. Kieser; (2, 6, 9) Edward M. O'Connor; (3, 4) P. J. Queroli; (5, 8) A. C. Smith; (7) F. P. Parkin. 5 French screw pr., cap. 90 t.; solv., cap. 240 t. Storage cap. 1,000,000 bu. "Borden's Cedar Valley" old process soybean oil meal. Served by WCF&N, RI RR.

**West Bend**—WEST BEND ELEVATOR CO. Ph. 126. (1) Earnie Schmidt; (2) John Bleuier; (3, 4) A. B. Carter; (5, 6, 8, 9) R. W. Jurgens; (7) H. W. Baas. 2 screw pr., cap. 30 t. Storage cap. 575,000 bu. "Felco" soybean oil meal and mixed feeds. Served by IC RR.

## KANSAS

**Coffeyville** — CONSUMERS COOPERATIVE ASSN. SOYBEAN MILL. Office 318 E. 10th St., Kansas City, Mo. (1) H. A. Cowden; (7, 9) Clayton Hejmanek. 2 exp., cap. 55 t. Storage cap. 330,000 bu. "Co-op" soybean oil meal and pellets.

**Emporia**—KANSAS SOYA PRODUCTS CO., INC. Ph. 3000. (1) J. J. Vanier; (2, 3) E. E. Steerman; (2, 5, 6) and gen. mgr., Elmer L. Buster; (7) T. R. Barnhart; (8) Robert H. Wise. 3 screw pr., cap. 40 t.; hexane solv., cap. 120 t. Storage cap. 800,000 bu. at Emporia, Olathe and Hartford. "Sunflower" soybean oil meal and pellets; "Sunflower" and "Lasso" mixed feeds. Served by MKT, ATSF RR.

**Girard**—PRODUCERS COOPERATIVE ASSN. Ph. 192. (1) Elmer Harr; (2) Marvin Green; (3, 4) and gen. mgr., S. O. Frey. 2 screw pr., cap. 40 t. Storage cap. 200,000 bu. "Producers" 41% soybean oil meal; "Producers," "Farmer's Special," and "Co-Op Open Formula" mixed feeds and pellets. Served by SLSE, ATSF RR.

**Wichita**—SOY RICH PRODUCTS, INC., 1501 N. Mosley. Ph. 5-9635. (1) Geo. S. Armstrong; (2) War O. Brooks; (3) Elmer C. Moore; (4, 5) and exec. vice pres., Ralph S. Moore; (6, 8) B. E. Henline; (7) Jess Turner; (9) J. W. Thelman. 2 screw pr., cap. 40 t.; Blaw-Knox hexane solv., cap. 150 t. Storage cap. 575,000 bu. "Four-Leaf Clover" soybean oil meal and pellets. Served by ATSF, MP, RI, MV RR.

## KENTUCKY

**Henderson**—OHIO VALLEY SOYBEAN CO. OP., 5th St. Ph. 3921. (1) Charles B. Smith; (2) Oscar D. Keck; (3, 4, 9) A. I. Reisz; asst. secy., treas., mgr., David Frymire. Hexane solv., cap. 85 t. Storage cap. 740,000 bu. "Cardinal Quality" soybean oil meal. Served by L&N, IC RR.

**Louisville**—BUCKEYE COTTON OIL CO. Dist. mgr., E. L. Newman; (7) Jack Gardner.

**Owensboro**—OWENSBORO GRAIN CO. (1) Wm. M. O'Bryan; (2) Henry E. O'Bryan; (3) Hugh P. And. Solv., cap. 125 t. Storage cap. 600,000 bu. "Greendale" 41% solv. soybean oil meal and "Ograco" 44% solv. soybean oil meal.

## LOUISIANA

**Alexandria**—RED RIVER COTTON OIL CO., INC., 514 N. 16th St. (1) J. E. Byram; (2, 5, 6, 8) J. E. Byram, Jr.; (3, 4) L. C. Waddell; (7) H. L. Zoder. 10 hydraulic pr., 3 exp., cap. 100 t. Storage cap. 500,000 bu. Served by MP, T&P, L&A, KCS RR.

**New Orleans**—SOUTHERN COTTON OIL CO., 210 Baronne St. Main office. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (1) A. O. Peterson; (2) W. F. Guinee; (2) L. C. Haskell; (2) M. W. Lyons; (2) E. A. Goughgan; (3) W. F. Hoerner; (4) C. M. Carriere.

**Shreveport**—SOUTHLAND COTTON OIL CO. Main office Paris, Tex.

**West Monroe**—UNION OIL MILL, INC. (1) C. W. Wallace; (2) E. W. Scott; (3, 4) A. B. Colmer; (7) R. W. May. 4 exp. Solv., cap. 150 t. Storage cap. 300,000 bu. "Union" soybean oil meal. Annual crush 300,000 bu. Served by IC RR.

## PROCESSORS—(Continued)

### MINNESOTA

**Bloomington—PRairie—FARMERS CO-OP ELEVATOR ASSN.**, soybean processing div. (1) Ormazon Peterson; (2) Harold Symes; (3, 4) T. B. Peterson; (5, 6, 8, 9) Wilbur P. Bidne; (7) Don Sandberg. Trichloroethylene solv., cap. 25 t. Storage cap. 120,000 bu. "Prairie" 44% soybean oil meal and flakes; "Farmers Best" feeds.

**Dawson—TRI-COUNTY COOPERATIVE SOYBEAN ASSN.** (1) Carl M. Hanson; (3) Morris Enevoldson; (9) Joe C. Givenus. Hexane solv., cap. 40 t. Storage cap. 80,000 bu. "Dawson" soybean oil meal.

**Glencoe—GLENCOE MILLS, INC.** Ph. 665, 666. (1) Lars Leifson; (2) Albert Alsleben; (3) Hubert G. Smith; (4) Frank J. Heavey; (6, 9) Clifford J. Olson; (7) Warren Pharris; (8) R. M. Edstrom. Trichloroethylene solv., cap. 25 t. Storage cap. 20,000 bu. "Glencoe Quality" soybean oil meal, mixed feeds and pellets. Served by MILW RR.

**Lakeville—CONSUMERS SOYBEAN MILLS, INC.** Office 1122 Flour Exchange Bldg. Minneapolis 15. (1, 5) Riley W. Lewis; (2) Harry J. Lewis; (3, 4) Donald E. Lewis; (7) Robert Diers. 6 exp., cap. 120 t. Storage cap. 120,000 bu. "Consumer's" soybean oil meal. Served by MILW RR.

**Mankato—ARCHER-DANIELS-MIDLAND CO.**, 3rd and Harper. Ph. 7947. Main office Minneapolis. (7) E. W. Schmidt, Jr. Hexane solv., "Archer" 44% and 50% soybean oil meal; "Archer" and "Boostroy" mixed feeds; "Archer" pellets. Served by CMO RR.

**Mankato—HONEYMEAD PRODUCTS CO.** Ph. 7911. (1, 6, 8) L. W. Andreas; (2, 3, 9) L. I. Masson; (4) and chm. of board, D. O. Andreas; (7) J. Kawczynski. Hexane solv., cap. 350 t. Storage cap. 1,600,000 bu. Mankato and Minneapolis. "Honeymead" soybean oil meal. Served by CMO, CNW, MILW, CGW RR.

**Minneapolis — ARCHER-DANIELS-MIDLAND CO.**, 600 Roanoke Bldg. Ph. Atlantic 2112. Plants at Decatur and Chicago, Ill.; Mankato, Minn.; Fredonia, Kans. (1) T. L. Daniels; (2, 5) F. E. Benson; (3, 6) A. C. Hoehne; (3) P. S. Duff; (4) S. S. Adair; (8) John P. Broshard.

**Minneapolis 15—CARGILL, INC.**, 200 Grain Exch. Plants at Chicago; Cedar Rapids, Fort Dodge and Washington, Iowa; Savage, Minn.; Philadelphia, Pa. (1) J. H. MacMillan, Jr.; (2) F. M. Seed; (3) A. G. Eggenmeyer; (4) C. W. Moores.

**Minneapolis—GENERAL MILLS, INC.**, chemical div., 700 General Mills Bldg. Ph. Atlantic 1141. Plants at Belmond, Iowa, and Rossford, Ohio. (1) S. D. Andrews, Jr.; (2) C. M. Dewey; (3) G. W. LaLone, Jr.; (2, 6) W. E. Flumerfelt; (4) E. K. Smith; (5, 8) F. H. Hatier. "General Mills" 44% protein solv. (hexane) extracted soybean oil meal.

**Minneapolis — MINNESOTA LINSEED OIL CO.**, 25 44th Ave. N.E. (1) E. H. Russell; (2) V. Wurtelz; (3, 4) J. D. O'Keefe; (5) Ray Lindquist; (6) Carl H. Schunke; (7, 9) George N. Walker. Solv., cap. 500 t. Storage cap. 3,000,000 bu. "Minnesota" soybean oil meal and pellets. Served by NP RR.

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## PROCESSORS—(Continued)

**Minneapolis 2—PILLSBURY MILLS INC.** feed and soy div., 600 Pillsbury Bldg. Plants at Clinton and Centerville, Iowa. (1) Paul Gerot; (2) C. H. Hendrix; (3) P. F. Sherman; (4) C. C. Coleman. Soy food products, crude and refined soybean oil, soybean oil meal, lecithin and mixed feeds.

**Preston—PRESTON SOYA MILLS, INC.** Registered office, Mapleton, Minn. Ph. 157-1. (1, 2) Wallace E. Frank; (3, 4, 5, 6, 8) Edward G. Frank; (7, 9) Ed Steinkopf. 3 exp., cap. 60 t. Storage cap. 140,000 bu. "Presto" soybean oil meal. Served by MILW RR.

**Savage—CARGILL, INC.** Ph. South 1-8641. Main office Minneapolis. (7) John Sheperd. Exp. and hexane solv. "Cargill" soybean oil meal. Served by MN&S RR.

## MISSISSIPPI

**Belzoni—BELZONI OIL WORKS, INC.** (1) Irby Turner; (2) L. S. Stoner; (3, 4) John Holbrook; (5, 6, 8) and gen. mgr., H. H. Gantz; (7) Jack Berry. Storage cap. 200,000 bu. "Belco" soybean oil meal.

**Belzoni—HUMPHREYS COUNTY OIL MILL.** Affiliate of Mississippi Cottonseed Products Co., Jackson. (7) H. C. Switzer; mgr., S. A. Pittman. 9 screw pr., cap. 50 t. Storage cap. 150,000 bu. Soybean operations 4,000-8,000 t.

**Clarksdale—PLANTERS MFG. CO.** (1) C. G. Smith; (2) C. G. Bobo; (2) E. L. Anderson, Jr.; (3, 4) and gen. mgr., A. K. Shaifer. 3 exp., cap. 65 t.; solv., cap. 200 t. Storage cap. 500,000 bu. 41% protein exp. process soybean oil meal; 44% protein solv. extracted soybean oil meal. Served by IC RR.

**Columbus—SOUTHERN COTTON OIL CO.** Ph. 245. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) P. K. Jaywes; (9) Y. E. Travis. "Sco-Co" soybean oil meal. Served by GM&O, SLSF, SOU, C&G RR.

**Corinth—BUCKEYE COTTON OIL CO.** Dist. mgr., A. J. Vaughan, Jr.; (7) N. A. Garrison.

**Greenville — GREENVILLE OIL WORKS,** Percy St. Ph. 6351-6352; LD 14. Affiliate of Mississippi Cottonseed Products Co., Jackson. (9) Hal Harris. Storage cap. 250,000 bu. Soybean operations 40%. Served by C&G, IC RR.

**Greenville — REFUGE COTTON OIL DIV.,** Southern Cotton Oil Co., 815 Nelson St. Ph. 5474. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) J. L. Tennent; (9) Joe B. Baird. French hexane solv. "Sco-Co" soybean oil meal. Served by IC, C&G RR.

**Greenwood — BUCKEYE COTTON OIL CO.** Dist. mgr., R. R. Mills; (7) W. G. Quinn.

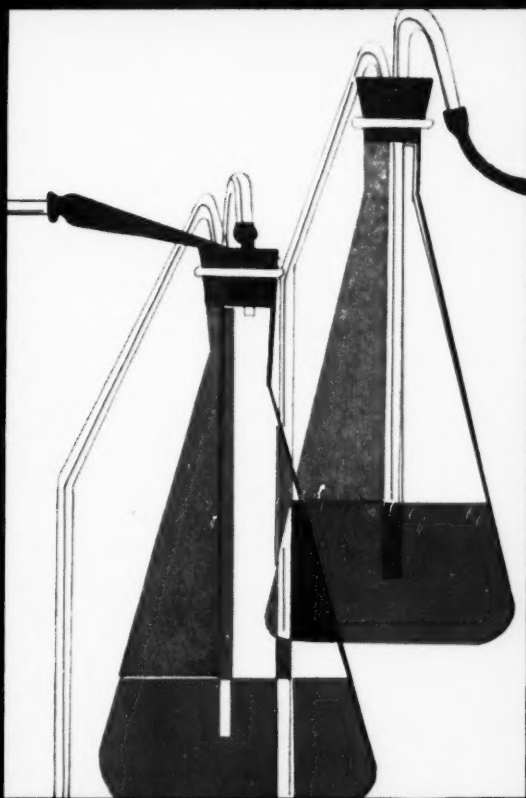
**Greenwood—PLANTERS OIL MILL.** Affiliate of Mississippi Cottonseed Products Co., Jackson. (7) G. R. Simpson; (9) N. F. Howard. Lukenweld filtration ext., cap. 90 t. Storage cap. 250,000 bu. Served by IC RR.

**Grenada—GRENADA OIL MILL,** Line St., P. O. Box 1125. Affiliate of Mississippi Cottonseed Products Co., Jackson. 9 hydraulic pr., cap. 60 t. Soybean operations 20%. Served by IC RR.

**Indianola—SUNFLOWER COTTON OIL CO.,** P. O. Box 389. Affiliate of Mississippi Cottonseed Products Co., Jackson. Gen. mgr., J. B. Perry, Jr. 12 hydraulic pr., cap. 60 t. Storage cap. 350,000 bu.

**Jackson—BUCKEYE COTTON OIL CO.** Dist. mgr., T. H. Harper; (7) E. A. Gaulding.

SOYBEAN BLUE BOOK



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## PROCESSORS—(Continued)

**Jackson**—DELTA COTTON OIL & FERTILIZER CO., Valley at Florence St., P. O. Box 899. Ph. 2-3624; LD 8. (1, 5, 6) Alfred Jenkins; (2) W. R. Barrow; (3) Jas. C. Bolton; (3, 4) L. D. Hamilton; (7) R. F. Anderson. 4 screw pr.; Blaw Knox hexane solv., cap. 150 t. Soybean operations 10,000 t. Served by IC RR.

**Jackson**—MISSISSIPPI COTTONSEED PRODUCTS CO., Plaza Bldg., P. O. Box 939. Chmn. of board, W. D. Lowe; (1) H. E. Covington; (2) J. B. Perry, Jr.; (3, 4) John K. Mason. Plants at Belzoni, Greenville, Greenwood, Grenada, Indianola, Kosciusko, Magnolia, Miss.; Kennett, Mo.

**Jackson**—SOUTHLAND COTTON OIL CO. Main office Paris, Tex.

**Kosciusko**—PLANTERS OIL MILL. Ph. 36; LD 37. Affiliate of Mississippi Cottonseed Products Co., Jackson. (5, 6, 8, 9) H. S. Simmons; (7) J. O. Burrows. 9 hydraulic pr., cap. 40 t. Storage cap. 85,000 bu. 41% protein soybean oil meal. Soybean operations 5 to 10 weeks per year. Served by IC RR.

**Magnolia**—MAGNOLIA COTTON OIL CO. Affiliate of Mississippi Cottonseed Products Co., Jackson. (7) James Burrows. 12 hydraulic pr., cap. 65 t. Storage cap. 250,000 bu. "Magnolia" soybean oil meal and pellets. Soybean operations 50%. Served by IC RR.

**Marks**—RIVERSIDE OIL MILL. Gen. mgr., Wm. King Self. 5 screw pr., cap. 180 t.; Anderson hexane solv., cap. 100 t. Storage cap. 750,000 bu. "Riverside" soybean oil meal. Served by IC RR.

**Vicksburg**—REFUGE COTTON OIL DIV., Southern Cotton Oil Co., P. O. Box 391. Ph. 2642; LD 9996. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) J. C. Holloway; (9) M. J. Harper. Hydraulic pr. "Refuge" soybean oil meal. Served by IC RR.

### MISSOURI

**Kansas City**—RALSTON PURINA CO., 2344 Rochester Ave. Ph. Victor 1316. Main office St. Louis. (5) F. G. Franze; (7) W. H. Kamp; (9) E. G. Hatchkiss. Solv., cap. 350 t. Storage cap. 500,000 bu. "Purina Chows" mixed feeds.

**Kennett**—HEMPHILL SOY PRODUCTS CO. (1, 6) W. A. Hemphill; (2, 8) W. B. Hemphill; (3, 4) J. A. Hemphill; (5) Van Watson; (7) Paul King. 3 French screw pr., cap. 100 t. Storage cap. 800,000 bu. "Circle H" soybean oil meal and pellets. Served by SLSF RR.

**Kennett**—KENNETT OIL MILL, INC. Ph. 8-4516, 8-4517. Affiliate of Mississippi Cottonseed Products Co., Jackson, Miss. (5, 6, 8, 9) N. P. Bartness. 14 hydraulic pr., cap. 120 t. "Kennett" soybean oil meal. Served by SLSF RR.

**Mexico**—M.F.A. COOPERATIVE GRAIN & FEED CO. Ph. 1199; LD 2. Main office 429 Cherokee St., St. Joseph, Mo. Affiliate Missouri Farmers Assn. (1) F. V. Heinkel; (2) John L. Meisner; (3) R. J. Rostier; (9) Maurice Maze; gen. mgr., A. J. Loutch; office mgr., Kermit F. Head. 4 exp., cap. 80 t. Storage cap. 650,000 bu. "M.F.A." soybean oil meal, feeds and pellets. Served by WAB, GM&O, CB&Q RR.

**New Madrid**—BUCKEYE COTTON OIL CO. Dist. mgr., R. W. Coursey; (7) W. J. Miligan.

**Sikeston**—SIKESTON COTTON OIL MILL, INC. (1) H. E. Covington; (2, 5, 6, 8, 9) P. B. Bartness; (3) E. O. DeField; (7) J. V. Shelton. 6 exp., cap. 120 t. Storage cap. 1,000,000 bu. Served by MP, SLSF RR.

**St. Joseph**—DANNEN GRAIN & MILLING CO., P. O. Box 429. Plant 900 Lower Lake Rd. Ph. 8-2431. (1) Dwight L. Dannen; (2) F. A. Mannschreck; (3) M. E. Dawson; (4) Chas. Mannschreck; (5, 6, 8) F. A. Gumbert; (7) George Lippold; (9) Dudley Holbert. 6 screw pr., cap. 130 t.; hexane solv., cap. 250 t. Storage cap. 2,000,000 bu. at St. Joseph and branches in Iowa, Mo., Kans. and Nebr. "Dannen" soybean oil meal, mixed feeds and pellets. Served by MP, CB&Q, ATSF, RI, CGW, UP RR.

**St. Louis 7**—BLANTON MILL, INC., 3326 N. Wharf. Ph. Main 4445. (1) D. A. Blanton, Jr.; (2, 5, 6, 8) R. A. Woolsey, Jr.; (3, 4) J. E. Dorn; (7, 9) H. Pexton. 3 screw pr., cap. 45 t. Storage cap. 180,000 bu. "Blanton" soybean oil meal. Served by CB&Q, ITC RR.

**St. Louis**—RALSTON PURINA CO., 835 S. 8th St. Also plants at Circleville, Ohio; Lafayette, Ind.; Bloomington, Ill.; Iowa Falls, Iowa; Kansas City, Mo. (1) Donald Danforth; (5, 8) Donald B. Walker; (6) Lamar Kishlar; (7) J. F. Austin; (9) H. L. Colwell. 6 screw pr., cap. 145 t. Storage cap. 1,225,000 bu. "Purina Chows" mixed feeds.

**Trenton**—CENTRAL FARM PRODUCTS CO., 801 Harris Ave. (1) J. A. Knudsen; (2, 6) E. Knudsen; (4) Axel Borghum; (5, 8, 9) H. K. Graham. 1 exp., cap. 20 t. Storage cap. 100,000 bu. "Solo" soybean oil meal. Served by RI RR.

### NEBRASKA

**Crete**—WESTERN PRODUCTS CO. Ph. 153. Affiliate of J. F. Garvey Co. Exp. (1) Geo. Mechling. Served by CB&Q, MP RR.

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## PROCESSORS—(Continued)

**Fremont—FREMONT CAKE & MEAL CO.** (1) John J. Vanier; (2) Harry B. Lilly; (3, 4, 5, 6, 8, 9) Harry E. Wyssel; (7) Del Gaeth, 4 exp., cap. 56 t. Storage cap. 650,000 bu. "Pete Marr" soybean oil meal and pellets. Served by UP, CB&Q, CNW RR.

**Lincoln—GOOCH MILLING & ELEVATOR CO.**, 6th and South Sts. Ph. 3-2345. (1) H. B. Lilly; (2) J. J. Vanier; (3) Maria Scheidt; (4, 6, 9) M. R. Eighmy; (5) J. Floyd Chance; (7) Lloyd Graham. 2 screw pr., cap. 45 t. Storage cap. 500,000 bu. "Gooch's Best" mixed feeds. Served by CB&Q, U.P., CNW, M.P., R.R.

**Omaha—ALLIED MILLS, INC.** Main office Chicago. (7) L. Livengood; (9) F. H. Blough. Expeller. "Wayne" soybean oil meal, mixed feeds and pellets.

## NEW JERSEY

**Bayonne—EL DORADO OIL WORKS**, Box 187, Ph. Hemlock 6-8772; Cortlandt 7-5177. Main office San Francisco 4. Also plant Richmond, Calif. (9) E. G. Hagen. 13 screw pr., cap. 250 t.; hexane solv., cap. 150 t. Storage cap. 400,000 bu. "El Dorado" soybean oil meal. Soybean operations 50%. Served by CNJ, LV, PRR, and all roads serving New York free literature area.

**Edgewater—SPENCER KELLOGG & SONS, INC.** Main office Buffalo.

## NEW YORK

**Buffalo—SPENCER KELLOGG & SONS, INC.**, 98 Delaware Ave. Plants at Chicago and Decatur, Ill.; Des Moines, Iowa; Bellevue, Ohio; Edgewater, N. J.; Long Beach, Calif. (1) Howard Kellogg, Jr.; (2) T. C. Jewett; (5) R. B. Jude; (6) R. L. Beyer; (8) R. E. Peterson. 15 exp., cap. 2.0 t. Storage cap. 1,000,000 bu. "Spencer Kellogg's" 44% protein soybean oil meal.

**Oswego—OSWEGO SOY PRODUCTS CORP.**, E. Seneca St. (1) Stewart D. Ormsby; (2) R. E. Taylor; (3, 4) L. H. Andursky; (7, 9) A. E. Horton; (8) Ralph Wyckoff; asst. secy treas., R. C. Lester. 7 exp., cap. 135 t.; hexane solv., cap. 200 t. Storage cap. 200,000 bu. "Oswego Soy Products Corp." soybean oil meal; "Big O" mixed feeds. Served by NYC, OW, DL&W RR.

**Staten Island 2—BROWN ALLEN CHEMICALS, INC.**, 2581 Richmond Terrace. Ph. Gibraltar 8-5000. Affiliate of Standard Piezo, Carlisle, Pa. (1) John O. Ekblom; (2) John R. Fowler, Jr.; (3, 4) Bernard C. Luce; asst. treas., John Westerhoff, Jr.; (9) R. A. Pollock. 10 screw pr., cap. 200 t. Storage cap. 100,000 bu. 41% oil process soybean oil meal. Served by B&O, ERIE, NYC, DL&W, PRR.

## NORTH CAROLINA

**Charlotte 1—BUCKEYE COTTON OIL CO.** Dist. mgr., R. E. Evans; (7) Wm. R. Johnston.

**Clayton—CENTRAL OIL & MILLING CO.**, P. O. Box 67. Ph. 214-1. (1, 4, 5, 6, 8, 9) Paul Keller; (2) Elisabeth S. Keller; (3) J. E. Nelson; (7) Robert Wood. 2 French screw pr., cap. 40 t. Storage cap. 100,000 bu. "Comco" soybean oil meal. Served by SOU RR.

**Farmville—MORGAN OIL & REFINING CO.**, 600 W. Pine St. (1) Irvin Morgan, Jr.; (3, 4) W. A. Pollard, Jr.; (7) H. V. Dixon. 3 hydraulic pr., cap. 24 t. Storage cap. 35,000 bu. "Joeko" soybean oil meal. Served by EC, NS RR.

SOYBEAN BLUE BOOK

## "PURITY BRAND"

### SOYBEAN OIL MEAL

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- Uniform Grind
- Golden Color

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Pioneers in Soybean Processing  
GALESBURG, ILLINOIS

## PROCESSORS—(Continued)

**Fayetteville**—SOUTHERN COTTON OIL CO., 135 C. St., P. O. Box 592, Ph. 32129. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co. 6 hydraulic pr., cap. 45 t. "Sco-Co" soybean oil meal. Soybean operations 50%. Served by ACL RR.

**Fremont**—FREMONT OIL MILL CO. (1) J. B. Lane; (2) E. R. Lane; (3, 4) Percy Lane Hayes; (7) W. R. Jones. 3 hydraulic pr., cap. 25 t. Storage cap. 15,000 bu. "Fomco" soybean oil meal and crude soybean oil. Served by ACL RR.

**Goldsboro**—SOUTHERN COTTON OIL CO., P. O. Box 564, Ph. 196; LD 30. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co. (9) and dist. mgr., W. V. Westmoreland. 7 hydraulic pr. "Sco-Co" 45% protein hydraulic soybean oil meal. Served by ACL, SOU, AEC RR.

**Hertford**—SOUTHERN COTTON OIL CO., Ph. 2131, 2141. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co. (7) W. C. Campbell; (9) W. J. Ward. 8 screw pr., cap. 75 t. Served by NS RR.

**New Bern**—NEW BERN OIL & FERTILIZER CO., Ph. 3194, 3195. (1, 5, 6) John S. Weskett; (2) H. G. Swan; (3, 4) W. W. McCotter; (7) F. C. Shearin. 2 screw pr., cap. 40 t. Storage cap. 150,000 bu. "N.O.M." soybean oil meal, mixed feeds and pellets. Served by NS, AEC, ACL RR.

**Raleigh**—BUCKEYE COTTON OIL CO. Dist. mgr., J. T. Wright; (7) J. F. Moody.

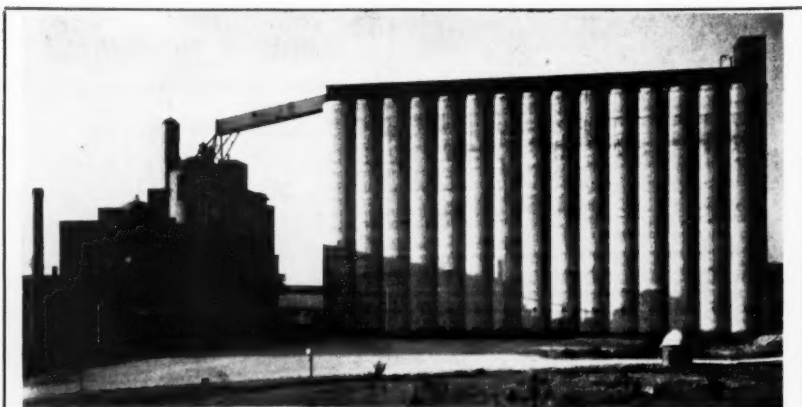
**Rocky Mount**—PLANTERS COTTON OIL & FERTILIZER CO., P. O. Box 912, Ph. 2-2131, 2-2132, 2-2133. (1, 6) R. D. Gorham; (2) W. M. Daughtridge; (2) J. D. Robbins; (2, 5, 8) W. T. Melvin; (2, 9) G. W. Gorham, Jr.; (3) T. H. Pitt; (4) J. L. Murphy; (7) C. J. Raynor. 12 hydraulic pr., cap. 60 t. Storage cap. 200,000 bu. "Planco" soybean oil meal. Served by ACL RR.

**Rocky Mount**—SOUTHERN COTTON OIL CO., P. O. Box 109, Ph. 2-3166. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) W. J. Davis; (9) J. E. Lambert, Jr. 8 hydraulic pr., cap. 50 t. "Sco-Co" soybean oil meal. Soybean operations 25%. Served by ACL RR.

**Tarboro**—SOUTHERN COTTON OIL CO., Royster St. Ph. 2303, 2361. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) J. W. Rhodes; (9) W. D. Moore. 8 hydraulic pr. "Sco-Co" soybean oil meal. Served by ACL RR.

**Weldon**—SOUTHERN COTTON OIL CO., P. O. Box 628, Ph. 9-128. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) F. M. Wilson; (9) C. E. King. 16 screw pr. "Sco-Co" soybean oil meal. Served by ACL RR.

**Wilson**—FARMERS COTTON OIL CO., 510 E. Barnes St. Ph. 2154. (1, 5, 6) T. F. Bridgers; (2) C. P. Harris, Jr.; (3) J. L. Day; (4) H. M. Rogers; (7, 9) W. G. Bryant. 15 hydraulic pr., cap. 75 t. Storage cap. 275,000 bu. 43% protein soybean oil meal. Soybean operations 20%. Served by ACL, NS RR.



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## PROCESSORS—(Continued)

Wilson—SOUTHERN COTTON OIL CO. Ph. 1346, 1347. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) J. A. Arnold; (9) A. H. Wells. 8 hydraulic pr. "Sea-Co" soybean oil meal. Soybean operations 10%. Served by ACL RR.

### NORTH DAKOTA

Grand Forks — NORTH DAKOTA MILL & ELEVATOR. Ph. 4-5541. (5) K. Quaintance; (6, 8) K. D. Ford; gen. mgr., R. M. Stangler; asst. mgr., P. R. Fossen. 1 screw pr., cap. 75 t. Storage cap. 500,000 bu. "Dakota Maid" soybean oil meal, mixed feeds and pellets. Served by GN, NP RR.

### OHIO

Bellevue—SPENCER KELLOGG & SONS, INC. Main office Buffalo.

Cincinnati 1—BUCKEYE COTTON OIL CO. Main office (2) R. B. Williams; (2) W. H. Knapp; (2) B. J. Gantt.

Cincinnati 32—DRACKETT CO., 3020 Spring Grove Ave. Plant Sharon Ave. and Lockland Rd. (1) Roger Drackett; (2, 9) R. B. Alsbaugh; (3) K. H. Jones; (4) Alberr Heekin; (5) R. A. Fledderman; (6) R. A. Schneider; (7) Don Ramsberry; (8) M. Settelmayer. Served by NYC, PRR.

Circleville—RALSTON PURINA CO. Ph. 47. Main office St. Louis. (5, 9) A. V. Couch; (7) Ray T. Friend. 6 screw pr., cap. 145 t. Storage cap. 650,000 bu. "Purina Chows" mixed feeds. Served by N&W, PRR.

Coshocton—FARMERS SOY PRODUCTS, 136 Hickory St. Ph. 50. Affiliate of Coshocton Farmers Exch. (1) Arthur Erman; (2) Glen Scheetz; (3, 4, 6, 9) Burt Miskimen; (5, 8) Dean Martz; (7) Lon Jelly; other officials, Irwin Porters, Archie Lapp. 2 screw pr., cap. 32 t. Storage cap. 40,000 bu. "Exco" Expeller soybean oil meal. Soybean operations 275,000 bu. yearly. Served by NKP, PRR.

Delphos—DELPHOS GRAIN & SOYA PRODUCTS CO. Ph. 5261. (1) and gen. mgr., Floyd E. Hiegel; (2) William Mericka; (3) F. E. Warren; (5) Kenneth E. Schultz; (6, 8) E. M. Wiechler; (7) Walter J. Suever; traffic mgr., Fred Tegtmeyer. Anderson hexane solv., cap. 120 t. Storage cap. 750,000 bu. 44% protein soybean oil meal. Served by NKP, PRR.

Fostoria—SWIFT & CO. Main office Chicago. (5, 9) H. S. Byrd; (7) F. E. Doll. "Swift's" soybean oil meal.

Marion—CENTRAL SOYA CO., INC. Main office Fort Wayne. (9) Robert W. Ray. Solv., cap. 400 t. Storage cap. 2,500,000 bu. "Central Star" soybean oil meal. "Centrol" lecithin. "Centrol" soybean oil products. "Master Mix" concentrates and complete feeds.

Ohio City — HOLLAND PIONEER MILLS, INC. (1, 3, 1, 6) G. A. Holland; (2, 4) J. R. Klosterman; (7) Owen Gephart; traffic mgr., R. J. Schnitz. 2 exp., cap. 46 t. Storage cap. 200,000 bu. "Lucky Strike" soybean oil meal, feeds and pellets. Served by ERIE, NYC, NKP RR.

Painesville—A. E. STALEY MFG. CO. Ph. 3525. Main office Decatur, Ill. (8) Lyle Wiegand; (9) Thomas Longhons. Hexane solv. "Staley's" soybean oil meal. Served by B&O, NYC, NKP RR.

SOYBEAN BLUE BOOK

## PROCESSORS—(Continued)

**Rossford**—GENERAL MILLS, INC., chemical div. Ph. Walnut 6611. Main office Minneapolis. Grain buyer and office mgr., L. R. Brewster; (7) G. W. Martin. Hexane solv., cap. 250 t. Storage cap. 1,500,000 bu. "General Mills 44%" protein solv. (hexane) extracted soybean oil meal.

**Toledo**—TOLEDO SOYBEAN PRODUCTS CO., 215 Pontiac St. Ph. Pontiac 3434, 3435. (5, 6, 8, 9) J. H. Brown; (7) M. Bame. 3 screw pr., cap. 48 t. Storage cap. 100,000 bu. 41% Expeller "Super Duo" soybean oil meal. Served by PRR.

### OKLAHOMA

**Durant**—DURANT COTTON OIL & PEANUT CORP., 401 Railway Ave. Ph. 1900, 1901. (1) G. W. Morrow; (2, 5, 6, 8) W. H. Sands; (2, 9) G. W. Morrow, Jr.; (3, 4) J. C. Taylor; (7) J. G. Enoch; office mgr., D. W. Sands. 2 exp., cap. 40 t. Storage cap. 100,000 bu. "Durco" soybean oil meal and pellets. Served by SLSF, KO&G, MKT RR.

**Guthrie**—GUTHRIE COTTON OIL CO., P. O. Box 446. Ph. 400; LD 10. (1, 6) H. P. Cook; (3) H. Dale Cook; (4, 8) Geo. Elder; (5) E. J. Murphy; (7) J. E. Satterfield. 6 screw pr., cap. 70 t. Storage cap. 175,000 bu. "Red Steer" soybean oil meal and pellets. Soybean operations 75%. Served by ATSF RR.

**McAlester**—McALESTER OIL MILL CO., 14th and Washington, P. O. Box 275. Ph. 710; LD 3. (1, 5, 6, 8, 9) P. F. Rosso; (2) S. C. Boswell; (3, 4) Jimmy Hall; (7) H. D. Moore; asst. mgr., J. A. Rosso. 4 French pr., cap. 55 t. Storage

cap. 150,000 bu. "Red Seal" soybean oil meal and pellets. "Choctaw" mixed feeds. Served by RI, MKT RR.

**Muskogee**—MUSKOGEE COTTON OIL MILL, 724 N. Mill St. Main office Kimbell Oil Mill, Box 1340, Fort Worth. (5, 8, 9) G. N. Irish; (7) J. E. Earl. 3 French pr., cap. 60 t. Storage cap. 260,000 bu. "Musco" and "Red Seal" soybean oil meal and pellets. Served by MKT, SLSF, MV, KO&G RR.

**Oklahoma City**—PRODUCERS COOPERATIVE OIL MILL, 5 E. Frisco St. Ph. Central 2 5175. (1) W. H. Kosanke; (2) J. G. Stratton; (3) J. Bryan Gentry; (7) J. B. Haskew; (9) A. L. Hazelton; asst. mgr., B. W. Heath. 5 screw pr., cap. 100 t. Storage cap. 350,000 bu. "Co-op" soybean oil meal and pellets. Served by SLSF RR.

**Oklahoma City**—SOUTHLAND COTTON OIL CO. Main office Paris, Tex.

**Oklahoma City**—SOUTHWESTERN COTTON OIL CO., 6 SE. 4th St., P. O. Box 1217. (1) R. A. Vose; (2) A. E. King, Jr.; (3, 4, 5, 6, 8, 9) Mrs. G. E. Mace; (7) Jim Wilson. 6 hydraulic pr., cap. 62 t. Storage cap. 400,000 bu. "Little Bull" soybean oil meal and pellets. Soybean operations 50%. Served by ATSF, RI, MKT, SLSF RR.

**Tulsa**—TULSA COTTON OIL MILL, 419 S. Quincy, P. O. Box 2479. Affiliate of Chickasha Cotton Oil Co. (1) A. L. Durand; (2) C. Britain; (3, 4) J. T. Aust; (5, 9) B. Britain; (6, 8) C. R. Van Valkenburgh; (7) Loyd Garten; cashier, C. E. Jones. 3 exp., cap. 60 t. Storage cap. 100,000 bu. "Chickasha Quality" soybean oil meal and pellets. "Chico" feeds. Served by MKT, SLSF, ATSF, MV RR.

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## PROCESSORS—(Continued)

### PENNSYLVANIA

**Jersey Shore**—PENNA. SOY BEAN CO., INC. Ph. 643. (1, 4, 5) M. R. Derk; (2) W. L. Shinton; (3) R. M. Wolf. 1 screw pr., cap. 15 t. Storage cap. 65,000 bu. Served by NYC RR.

**Philadelphia**—CARGILL, INC., Pier 100 S. Delaware Ave. and Bigler St. Ph. Howard 5-1313. Main office Minneapolis. (7) R. F. Hubbard. Exp. "Cargill" soybean oil meal.

### SOUTH CAROLINA

**Bennettville**—SOUTHERN COTTON OIL CO., 215 Spencer St. Ph. 75. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) J. D. Costner; (9) G. L. Hooks, Jr. "Sco-Co" soybean oil meal. Served by ACL RR.

**Camden**—SOUTHERN COTTON OIL CO. Ph. 54. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) H. H. Pousser; (9) Thomas Antrum. 3 French screw pr., cap. 25 t. "Sco-Co" soybean oil meal. Soybean operations 25%. Served by SOU, SA RR.

**Kershaw**—KERSHAW OIL MILL. (1) and gen. mgr., H. L. McPherson; (2) Edna S. Stevens; (2) Fred E. Culvern; (3) John S. Davidson; (4) and asst. gen. mgr., T. V. Hough; (7) Y. L. Copeland. 12 exp., cap. 125 t. Storage cap. 500,000 bu. 45% protein soybean oil meal. Served by SOU RR.

**Lancaster**—LANCASTER COTTON OIL CO. Affiliate Kershaw Oil Mill. (1, 5, 6) H. L. McPherson; (2, 4, 8) W. G. Taylor; (3) A. P. McLure; (7, 9) W. Ben Sowell. 8 exp., cap. 70 t. Storage cap. 150,000 bu. "Palmetto" soybean oil meal. Soybean operations 33%. Served by SOU, LC RR.

**Marion**—MARION COTTON OIL CO. Affiliate of Kershaw Oil Mill. (1, 5, 6, 8) H. L. McPherson; (3) John S. Davidson; (4) T. V. Hough; (7) Roy Peebles; (9) W. W. Snipes. 10 hydraulic pr. Storage cap. 25,000 bu. Served by ACL RR.

**Orangeburg**—SOUTHERN COTTON OIL CO., P. O. Box 313. Ph. 12, 2237. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) L. T. Zeigler; (9) C. R. Duncan. "Sco-Co" soybean oil meal. Served by SOU, ACL RR.

### TENNESSEE

**Memphis**—BUCKEYE COTTON OIL CO. Western div. mgr., W. R. Flippin; dist. mngs., T. F. Horn, R. H. Norris; Binghamton Mill (7) F. M. Williams; Hollywood Mill (7) W. E. Hassler.

**Memphis**—SOUTHERN COTTON OIL CO., 1351 Williams St. Ph. 7-6497; L.D. 331, 332. Main office New Orleans. Subsidiary of Wesson Oil & Snowdrift Co., Inc. (7) O. D. Easley; (9) W. K. Martak. Served by SOU RR.

**Memphis**—SWIFT & CO., P. O. Box 3667, Lamar Sta. Main office Chicago. (5, 9) E. C. McGee; (7) W. H. Stewart; (8) J. C. Prahl. "Swift's" soybean oil meal.

**Nashville**—NASHVILLE COTTON OIL MILL CORP., 410 Chestnut St. (1, 6, 8) E. Rice, Jr.; (2) S. H. Ridens; (3, 4, 5) W. W. Smith; (7) Earl Evans. 5 exp., cap. 100 t. Storage cap. 300,000 bu. "Famous" mixed feeds and pellets; soybean oil meal. Soybean operations 35%. Served by N&C, L&N RR.

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## PROCESSORS—(Continued)

**Ridgely**—PHOENIX OIL MILL. Ph. 87. (1; 9) George Wynn Smith; (7) William E. Lindamood. Prepressing plant (4 exp., hexane solv.), cap. 80 t. Storage cap. 360,000 bu. "Pure Gold" 44% protein soybean oil meal. Served by IC RR.

**Tiptonville** — WEST TENNESSEE SOYA MILL, INC. Ph. 212; LD 63. (1) J. E. Vaughn; (2) L. O. Brayton; (2, 5, 6, 8, 9) Peter Fredrickson; (3, 4) W. A. McCutchen; (7) Thos. Hutchinson. Allis Chalmers hexane solv., cap. 150 t. Storage cap. 950,000 bu. 44% protein solv. ext. soybean oil meal. Soybean operations 35,000 t. Served by IC RR.

## TEXAS

**Cooper**—COOPER COTTON OIL CO. Subsidiary of Chickasha Cotton Oil Co. (1) A. L. Durand; (2) C. M. McKinney; (3, 4) Quentin Miller; (5) C. R. Van Volkenburgh; (7) C. B. Landers; (8, 9) Guy Ray. 4 hydraulic pr., cap. 35 t. Storage cap. 50,000 bu. Soybean operations 33%. Served by SP RR.

**Gatesville**—GATEWAY COUNTY COTTON OIL CO. P. O. Box 308. Owner, R. S. Ray; (7) R. C. Howell; (9) Joe L. Galey; office mgr., J. W. McDonald. 2 French pr., cap. 38 t. Storage cap. 100,000 bu. Served by SSW RR.

**Hamlin** — MID WEST COOPERATIVE OIL MILL. P. O. Box 398. Ph. 174. (1) A. F. Kemp, Ballinger; (2) T. T. Smith, Colorado City; (3, 4, 9) Clyde Grice; (7) D. A. Mullings. 4 French screw pr., cap. 120 t. Storage cap. 235,000 bu. Crush soybeans when cottonseed not available. Served by MKT, ATSF RR.

**Paris**—SOUTHLAND COTTON OIL CO. Processing plant at Oklahoma City, Okla.; Shreveport, La.; Jackson, Miss. (1) J. R. Gill; (2, 4) J. O. Atwell.

**San Marcos**—SAN MARCOS OIL MILL. P. O. Box 8. Ph. 8. (1) L. J. Eastwood; (3, 4, 5, 6, 8, 9) H. K. Eastwood; (7) Albert Damerau. 1 screw pr., cap. 15 t.; 3 hydraulic pr., cap. 20 t. Storage cap. 200,000 bu. 41% protein soybean oil meal, and pellets. Served by IGN, MKT RR.

**Seguin**—SEGUIN COTTON OIL CO., 561 W. New Braunfels, P. O. Box 750. Ph. 5, 47; LD 3. (1) D. D. Baker, Jr.; (2) L. Dittmar; (3, 4, 5) Hugo G. Schmitt; (7) Foy Kuhn; (8) A. W. Heidmann. 1 screw pr., cap. 69 t. Storage cap. 100,000 bu. "Sunny Home" mixed feeds and pellets. Soybean operations about 33%. Served by SP RR.

**Sherman**—GENERAL VEGETABLE OIL CO. Ph. LD 45. Also office Fort Worth. Affiliate of Kimbrell Norris Mills. (1, 6) P. A. Norris, Jr.; (2) Kay Kimbrell; (2, 5, 8) W. B. Vaughan; (3) B. J. Quinn; (7) J. H. Fryer; (9) F. D. Phillips. 5 screw pr., hexane solv., cap. 200 t. Cottonseed major operation. Served by MKT RR.

**Van Alstyne**—VAN ALSTYNE COTTON OIL CO. (1, 5, 6) J. Umphress; (2) Creed Taylor; (3) S. M. Cartwright; (7) M. F. Duke. 3 hydraulic pr. Served by T&NO RR.

**Weatherford**—PLANTERS COTTON OIL CO., Box 317. (1) J. R. Fleming; (2) E. D. Raines; (3, 4, 5, 6, 8) E. T. Fleming; (7, 9) Lowery Johnson. 2 French pr., cap. 40 t. Storage cap. 100,000 bu. "Planters" soybean oil meal and pellets. Served by T&P SLSE RR.

**Wharton**—PEOPLES COTTON OIL CO., P. O. Box 1180. Plant 500 Sunset St. Ph. 43, 84.

(1, 4, 5, 6, 9) H. E. Wilson; (2) Mrs. Hans Guldman; (3) S. R. Harmanson, Jr.; (7) Fred Johnson. 2 French screw pr., cap. 100 t. Storage cap. 10,000 bu. 43% soybean oil meal. Soybean operations part time. Served by SP ATSF RR.

## VIRGINIA

**Norfolk**—DAVIS MILLING CO., INC., 1197 Water St. (1) H. R. Davis; (5) J. F. Gutelius. 3 hydraulic pr., cap. 40 t. Storage cap. 100,000 bu. "DMCO" soybean oil meal. Served by N&W RR.

**Portsmouth** — ALLIED MILLS, INC. Main office Chicago. (7) L. C. Campbell; (9) E. H. Shelly. Exp. "Wayne" soybean oil meal, mixed feeds and pellets.

**Suffolk**—SUFFOLK OIL MILL, INC., P. O. Box 726. (1, 5, 6, 8) L. W. Caulk, Jr.; (2) L. B. Caulk; (3, 4) J. F. Caulk; (7) J. H. Jones. Soybeans operations 3%. Served by VGN RR.

## WISCONSIN

**Janesville**—JANESVILLE MILLS, INC., 411 S. Pearl St. Ph. 3371. (1) Ralph Wells; (2) Geo. Conway; (3, 4, 9) A. Roger Hook. 2 screw pr., cap. 30 t. Storage cap. 120,000 bu. "JM" old process soybean oil meal. "GM" mixed feeds. Served by MILW, CNW RR.

## CANADA

**Altona, Man.** — CO-OP VEGETABLE OILS LTD., P. O. Box 150. Ph. 62. (1) J. J. Peters; (2) Jac Hooge; (3, 4) D. K. Friesen; (5) John Funk; (6, 8, 9) John Enns. 3 exp., cap. 50 t. Storage cap. 250,000 bu. Soybean operations 250,000-400,000 bu. Served by CP RR.

**Baden, Ont.**—DOMINION LINSEED OIL CO., LTD. Ph. 14. Main office Montreal, Que. (1) S. Irwin; (2) D. E. Wiley; (3, 4) E. R. Wormington; (6, 8) J. B. Rollins; (7) S. Mott; (9) H. Leiskau. 5 screw pr., cap. 75 t. Storage cap. 95,000 bu. "Blue Blossom" soybean oil meal. Soybean operations 300,000 bu. Served by CN RR.

**Fort William, Ont.** — EDIBLE OILS LTD., P. O. Box 130. Main office Winnipeg, Man. (1) K. A. Powell; (2) J. Gordon Ross; (3, 4) W. T. Powell; (7, 9) A. J. Lammien. 4 exp., cap. 80 t.; solv., cap. 50 t. Storage cap. 50,000 bu. "Edible" soybean oil meal. Served by CN, CP RR.

**Hamilton, Ont.** — CANADIAN VEGETABLE OIL PROCESSING LTD., Victoria Ave. and Burlington St. (1, 5, 6, 8, 9) G. S. Boulter; (2) J. Reesor; (3, 4) G. H. Vinnall; (7) B. Mooney. 7 exp., cap. 150 t. Storage cap. 500,000 bu. "CVOP" soybean oil meal. Served by CN RR.

**Toronto, Ont.**—TORONTO ELEVATORS LTD., 417 Queen's Quay W. Ph. Empire 47161. (1) G. C. Leitch; (2) R. C. Berkinshaw; (2) feed div., F. W. Present; (2, 5) grain div., A. D. Clark; (3) F. T. Carnegie; (4) G. W. Hawes; oil mgr., H. E. Bryant; oil prod. mgr., R. S. Wayman. 8 screw pr., cap. 150 t.; hexane solv., cap. 150 t. Storage cap. 2,000,000 bu. "Double Diamond" soybean oil meal; "Master" mixed feeds and pellets. Served by CN, CP RR.

**Toronto, Ont.**—VICTORY MILLS LTD., 285 Fleet St. E. Ph. Empire 2-8771. Wholly owned subsidiary of Canadian Breweries Ltd., Toronto. Chm. of board, E. P. Taylor; (1) J. G. Campbell; (2, 4) G. Abrams; (2, 5, 6) A. R. Gillespie; (2, 7, 9) R. G. Loftus; (2, 8) J. C. Henderson; (3) W. E. Drewry. 5 screw pr., cap. 120 t.; hexane solv., cap. 210 t. Storage cap. 1,100,000 bu. "Veeline" soybean oil meal; "Soywhite" fat-free soy flour. Served by CN, CP RR.





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## FOREIGN PROCESSORS

Includes the firms about which the editors were able to obtain information. Not a complete list.

### ENGLAND

**London, E. C. 3—SOYA FOODS LTD.**, 40 St. Mary Ave. Ph. Avenue 4971. Plant, Atlantic Wharf, East Dock, Cardiff, South Wales. Ph. Cardiff 2934. Affiliate of Spillers Ltd. Hexane solv., cap. 150 t. Storage cap. 186,000 bu. at Cardiff. Soybean oil meal and defatted soy flour; "Soyvolk" full-fat soy flour. Served by British Railways, Western Region.

### FRANCE

**Bordeaux — GRANDE HUILERIE BORDELAISE**, 8, cours de Gourgne. Plant at 180 quai de Brazza, Bordeaux-Bastide. (1) M. Philippart. 11 screw pr., cap. 150 metric t.; solv., cap. 150 metric t. Storage cap. 10,000 metric t. "Croix-Verte" soybean oil meal; "Nutrix" mixed feeds; "Fluidor" lecithin. Served by SNCF RR.

**Fecamp — GRANDE HUILERIE BORDELAISE**, route de Rouen. (1) M. Philippart. 14 screw pr., cap. 90 metric t.; solv., cap. 90 metric t. Storage cap. 5,000 metric t. "Croix-Verte" soybean oil meal; "Nutrix" mixed feeds; "Fluidor" lecithin.

### GERMANY

**Dusseldorf/Holthausen — HENKEL & CIE.**, G.m.b.H., Henkelstrasse 67. Solvent plant not operating.

**Hamburg 28 — STETTINER OELWERKE IN HAMBURG A.G.** Directors, G. Saltzwedel, Dr. O. Tewaag; (6, 8) K. Viergutz; (9) K. Habert. 12 screw pr., cap. 150 t.; benzine solv., cap. 250 t. Storage cap. 5,000 t. Soyaschrot "Imperial" soybean oil meal; "Mandschu" and "Sedina" refined oil.

**Hamburg-Altona — NORDDEUTSCHE OELMUELENWERKE G.m.b.H.**, Stresemannstr. 375. (1) Dr. Samwer. 6 screw pr., cap. 300 t.; benzine solv., cap. 300 t. Storage cap. 2,000 t. a 1,000 kg. "Emporta" soybean oil meal.

**Hamburg-Harburg 1 — HARBURGER OELWERKE BRINCKMAN & MERGELL**, Seehafenstr. 2. Phone 77 11 41. Owners: M. J. Brinckman, C. Mergell, K. V. v. Sydow; (4) W. Plett; (5) W. A. Sostmann; (6) R. Zehe; (8) W. Seifert; (9) H. Schnakenberg; chief chemist, Dr. W. Rheinheimer. 62 pr., cap. 500 t. (pre-pressing); petrol and hexane solvent plants, cap. 800 t. (basis soyabeans). Storage cap. 845,000 bu. "Holburn" soybean oil meal. Served by Hamburg-Interrelle, Anschlussgleis 11 RR.

**Hamburg-Harburg — F. THORL'S VEREINIGTE HARBURGER OELFABRIKEN AKTIENGESELLSCHAFT**, Harburger Schlossstrasse 20. Plant at Schliessfach 47. Phone Hamburg 77 12 31. Board of directors: Dreschers, Hanel, Dr. Schraud, ten Haven; (3) Guschall; (4) ten Haven; (5) Dr. Schraud; (6) Halder; (7) Wardenphul; (8) Wartberg; (9) Hanel. Benzine ext., cap. 550 t. Storage cap. 20,000 t. at Citadel. Pellets. Served by Deutsche Bundesbahn RR.

**Hamburg-Wilhelmsburg — HANSA-MUEHLE A. G.**, Kohlbrandstr. 1. Plants for extraction, oil refining and hardening at Hamburg-Neuhof. (1) Erich Ancker; (7) A. Kleinhempel. 4 screw pr., cap. 240 t.; benzine solv., cap. 250 t. Storage cap. 440,000 bu. Sojaschrot "Hansacithin Extra" lecithin.

**Heilbronn a.N. — CARL HAGENBUCHER & SOHN**, Kranenstr. 12. Phone 2841-43. (1) Dr. Ernst Wecker; (5) Dr. P. Wecker; (6) Klaus Wecker; (7, 9) Dr. Fritz Wecker; (8) Alfred Stahl. 6 screw pr., cap. 100 t.; Hansa-Muehle hexane solv., cap. 100 t. Storage cap. 2,000 t. Soy flour. Soybean operations 4,000 tons per year. Served by DB RR.

**Neuss/Rhein — O. L. SELS**, Dusseldorfstr. 101. Phone 4054-56. 4 screw pr., cap. 100 t.; hexane solv., cap. 100 t. Soybean oil meal.

**Neuss/Rhein — C. THYWISSSEN**, Oelfabrik. (1) Josef, Carl and Hermann Thywissen. 17 exp., cap. 350 t.; solv., cap. 600 t. Storage cap. 350,000 bu.

**Neuss/Rhein — WALTER RAU NEUSSER OELWERKE A.G.**, Industriestrasse 36-40. Affiliate of Walter Rau Teutoburger Margarinewerke, Hiltner T.W. (1) Dr. Hubertus Carls; (5) Erich Ancker.

### JAPAN

**Okayama — NIHON KOYU KOGYO K.K.**, No. 83 Minamigata. Ph. Okayama 7691-7694. (1) Teiji Tabuchi; (2) Hisao Morioka; (3) Ichiro Nakamura; (5) Isao Akazawa; (7) Tsugio Kato; (9) Takaichi Suetsuna. 10 screw pr., cap. 50 t.; hexane solv., cap. 200 t. Storage cap. 50,000 bu. "Nikko" soybean oil meal.

### NORWAY

**Oslo — A/S NORSK SOYAMELFABRIK**, Fr. Nansenspl. 9. Phone 427353. Plant at Larvik. Phone 1516. (1, 5) Ludvig Ramm; (7) Arne Flood; (9) Karl Schoning. Solv., cap. 115 t. Storage cap. 200,000 bu. "Prota" soybean oil meal. Served by Oslo Drammen-Larvik RR.

### SOUTH AMERICA

**Campinas-Sao Paulo-Brazil — CIA SWIFT DO BRAZIL S.A.** Ph. 3291-2-3. Affiliate of International Packers Ltd. (1) C. H. Hodges; (2) C. E. Wrynn; (3, 4) F. S. Lanzetta; (5, 6, 8, 9) O. H. Obertopp; (7) R. H. Welker. 10 screw pr., cap. 60 t. Storage cap. 400,000 bu. "Swift-Plate" soybean oil meal; low-fat soy flour. Soybean operations 2,000-5,000 t. Served by E. F. Paulista-Mogiiana-Sorocabana RR.

**Santa Rosa-RGS-Brazil — INDUSTRIA GAUCHA DE OLEOS VEGETAIS LTDA.**, Rua Santa Cruz s/n. (1) Eurico Leusin. 4 exp., cap. 20 t. Storage cap. 900,000 kilo. Soybean operations 1953 1,100,000 kilos.

**Sao Paulo-Brazil — CIA SWIFT DO BRASIL S.A.** Plant at Sao Jose de Rio Preto. Ph. 165. Affiliate of International Packers. (1) C. H. Hodges; (2) C. E. Wrynn; (3, 4) F. S. Lanzetta; (5, 6, 8, 9) O. H. Obertopp; (7) D. T. Lima. 4 screw pr., cap. 40 t. Storage cap. 300,000 bu. "Plate-Swift" soybean oil meal. Soybean operations part time. Served by Estrado de Ferro Araraquera RR.

# REFINERS OF SOYBEAN OIL

## CALIFORNIA

Long Beach—PROCTER & GAMBLE MFG. CO.

San Francisco 7—PACIFIC VEGETABLE OIL CORP., 62 Townsend St. Plant at 1145 S. 10th St., Richmond. Manufacturing refiner.

Wilmington—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave.

## GEORGIA

Macon—PROCTER & GAMBLE MFG. CO.  
Savannah—SOUTHERN COTTON OIL CO.

## ILLINOIS

Chicago 9—ARMOUR & CO., Union Stock Yards. Plants at Chicago, Fort Worth, Chattanooga, Jersey City.

Chicago—SOUTHERN COTTON OIL CO.

Chicago 9—WILSON & CO., INC., refinery dept., 41st and Ashland Ave. Plants at Chicago, Chattanooga, Oklahoma City.

Decatur—A. E. STALEY MFG. CO.

Jacksonville—MRS. TUCKER'S PRODUCTS, div. of Anderson, Clayton & Co., P. O. Box 368, RFD No. 6.

## IOWA

Clinton—PILLSBURY MILLS, INC., Wilson Bldg. Plant also at Centerville.

## LOUISIANA

Gretna—SOUTHERN COTTON OIL CO.

Opelousas—OPELOUSAS OIL REFINERY, 909 Railroad Ave. Affiliate Cotton Products Co., Inc., Opelousas.

## MINNESOTA

Minneapolis—ARCHER-DANIELS-MIDLAND CO., 600 Roanoke Bldg. Plants in Mankato and Minneapolis, Minn.; Decatur, Ill.; Buffalo, N. Y.; Edgewater, N. J.; Portland, Ore.; Kenedy, Tex.

Minneapolis 1—GENERAL MILLS, INC., chemical div., 700 General Mills Bldg. Plant, Belmond, Iowa.

## MISSOURI

St. Louis 7—BLANTON CO., 3400 N. Wharf.

## NEW JERSEY

Bayonne—SOUTHERN COTTON OIL CO.

Newark—COLONIAL PACKING CORP., 174 Blanchard St. Other plants, Italian Cook Oil Corp. and Penn Sales Co., Inc.

## NEW YORK

Buffalo—SPENCER KELLOGG & SONS, INC., 98 Delaware Ave. Plants at Edgewater, N. J.; Bellevue, Ohio; Decatur and Chicago, Ill.; Long Beach, Calif.; Des Moines, Iowa.

New York 17—BEST FOODS, INC., 1 E 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Tex.; San Francisco, Calif.

New York 10—E. F. DREW & CO., INC., 15 E. 26th St. Plant, Boonton, N. J.

New York 22—LEVER BROS. CO., 390 Park Ave. Refining plants at 101 River Road, Edgewater, N. J.; 1200 Calumet Ave., Hammond, Ind.; 600 E. Sheila St., Los Angeles 22, Calif.

Port Ivory, Staten Island—PROCTER & GAMBLE MFG. CO.

## OHIO

Cleveland 14—GLIDDEN CO., 1396 Union Commerce Bldg. Oil refining operations conducted through Durkee Famous Foods and Vegetable Oil Products division with plants at Elmhurst, L. I., N. Y.; Louisville, Ky.; Chicago, Ill.; Berkeley and Buena Park, Calif.; Cleveland, Ohio.

Columbus 16—CAPITAL CITY PRODUCTS CO., 325 W. 1st Ave., P. O. Box 569.

Ivorydale, Cinicinnati—PROCTER & GAMBLE CO.

## OKLAHOMA

Oklahoma City—WILSON & CO., INC., refinery dept.

## PENNSYLVANIA

Philadelphia 34—C. F. SIMONIN'S SONS, INC., Tooga and Belgrade Sts.

## TENNESSEE

Chattanooga—WILSON & CO., INC., refinery dept., Hooker Rd., Box 1230.

Memphis—HUMKO CO., 1702 N. Thomas St. Offices: New York, Chicago, Philadelphia, Los Angeles.

Memphis—SOUTHERN COTTON OIL CO.

## TEXAS

Dallas—PROCTER & GAMBLE MFG. CO.

El Paso—WESTERN COTTON OIL CO., refinery div., P. O. Box 1491.

Sherman—MRS. TUCKER'S PRODUCTS, div. of Anderson, Clayton & Co., 1201 E. Pecan St.

## VIRGINIA

Portsmouth—PROCTER & GAMBLE MFG. CO.

## WISCONSIN

Cudahy—CUDAHY BROS. CO.

## CANADA

E. Hamilton, Ont.—PROCTER & GAMBLE CO. OF CANADA, LTD., Burlington St.

Toronto, Ont.—LEVER BROS. LTD., 299 Eastern Ave. Affiliate Unilever Ltd., London, England.

W. Toronto 9, Ont.—CANADA PACKERS, LTD. Plants located at Toronto, Montreal, Winnipeg, Edmonton and Vancouver.

## GERMANY

Neuss/Rhein—C. THYWISSEN, Olfabrik.

# SOY PRODUCTS

## MANUFACTURERS AND HANDLERS OF SOY FOODS

### BEVERAGES

**Arlington, Calif.**—LOMA LINDA FOOD CO. Breakfast cup.

**Azusa, Calif.**—W.H.Y. & KEVO PRODUCTS CO., LTD. Subsidiary of G. M. Bartlett Co. "W.H.Y." and "Kevo" soy products.

**Los Angeles 31, Calif.**—CUBBISON CRACKER CO., 3419 Pasadena Ave. "Cubbison's Hollywood Cup."

**Champaign, Ill.**—COCHRAN HEALTH FOOD STORE, 504 S. Neil St. Handler.

**Chicago, Ill.**—CHICAGO DIETETIC SUPPLY HOUSE, 1750 W. Van Buren St.

**Chicago 14, Ill.**—WM. H. LEAHY CO., INC., 918 Armitage Ave. Wholesale dist. Coffee substitutes.

**Chicago, Ill.**—JOHN SEXTON & CO., Sexton Square. Other plants at Long Island City, Boston, Philadelphia, Pittsburg, Detroit, Atlanta, Dallas and San Francisco. "Chocolait."

**Des Moines 9, Iowa**—SOY PRODUCTS CO., 7 7th St.

**Camden 5, N. J.**—BRILLIANT FOODS, P. O. Box 912, E. Camden Sta.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1294. "Bevasoy" soybean coffee substitute, contains also roasted fruit.

**Madison College, Tenn.**—MADISON FOODS. Brockville, Ont., Canada — MacDOWELL BROS., P. O. Box 141. Also at Ogdensburg, N. Y. Dietary foods.

**Hamilton, Ont., Canada**—MILKO PRODUCTS LTD., P. O. Box 766. Tonic food beverages with soybean base.

### BREAKFAST FOODS

**Champaign, Ill.**—COCHRAN HEALTH FOOD STORE, 504 S. Neil St. Handler. Unrefined cereals.

**Chicago, Ill.**—CHICAGO DIETETIC SUPPLY HOUSE, 1750 W. Van Buren St. Breakfast foods. "Cellu Soy Flakes."

**Chicago 10, Ill.**—FEARN SOYA FOODS, 355 W. Ontario St. "Dr. Fearn's" wheat cereal and soya.

**Des Moines 9, Iowa**—SOY PRODUCTS CO., 7 7th St.

**Battle Creek, Mich.**—KELLOGG CO. "Corn Soya."

**Red Wing, Minn.**—SPECIAL FOODS CO., div. of Sturdiwheat Co. Office, Citizens Fund Bldg. Plant, 970 Raymond Ave., St. Paul. "V 932" high-protein food.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS, 407 Hickory St., P. O. Box 1294. "Vi-Vi-Ta." Soy breakfast cracks (grits).

### CANNERS OF GREEN VEGETABLE SOYBEANS

**Milton, Del.**—DRAPER CANNING CO.

**Rockland, Mass.**—SOM TOY CHINESE FOOD PRODUCTS, INC., 65 Grove St.

**Mt. Vernon, Ohio**—LOMA LINDA FOOD CO., eastern div., P. O. Box 388. Home office Arlington, Calif.

**Sidney, Ohio**—ST. MARY'S PACKING CO. Factories at Nublesville, Ind.; Delphos, Morral, Mt. Sterling, St. Mary's and Van Wert, Ohio; and North Freedom, Wis.

**Birdsboro, Pa.**—STERNER'S SPECIAL FOODS, R. 2. Aoda variety mature green soybeans packed as table beans in water, with and without salt.

**Bloomsburg, Pa.**—BLOOMSBURG PACKING CO., 840 Catherine St.

**Hortonville, Wis.**—FOX VALLEY CANNING CO.

### CANNERS OF MATURE SOYBEANS

**Mt. Vernon, Ohio**—LOMA LINDA FOOD CO., eastern div., P. O. Box 388. Home office Arlington, Calif. Pack dry soybeans in tomato sauce.

### COOKIES, CRACKERS, TOASTS AND WAFERS

**Los Angeles 31, Calif.**—CUBBISON CRACKER CO., 3419 Pasadena Ave. "Cubbison's" soya toast, cookies and crackers.

**Stockton, Calif.**—TASTI DIET FOODS, INC., Box 810. Manufactures special dietary foods. Baked goods.

**New York, N. Y.**—NATIONAL BISCUIT CO., 449 W. 14th St. "Triangle Thins."

### FROZEN DESSERTS

The following firms manufacture vegetable oils used in frozen desserts:

**Wilmington, Calif.**—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave., P. O. Box 248.

**Chicago 9, Ill.**—WILSON & CO., 41st St. and S. Ashland Ave. "Frosto."

**Buffalo, N. Y.**—SPENCER KELLOGG & SONS, INC., 98 Delaware Ave.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Plant at 416 Division St., Broomton, N. J.

**Cleveland 14, Ohio**—GLIDDEN CO., 1396 Union Commerce Bldg. Refineries at Berkeley, Calif.; Chicago, Ill.; Louisville, Ky.; Elmhurst, L. I., N. Y. "Kalua."

**Columbus, Ohio**—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave.

**Sherman, Tex.**—MRS. TUCKER'S PRODUCTS, div. of Anderson Clayton & Co., 1201 E. Pecan St. Also plant at Jacksonville, Ill. "Velvet."

### HEALTH FOOD STORES, SUPPLY HOUSES (Handle a wide variety of soy products.)

**Champaign, Ill.**—COCHRAN HEALTH FOOD STORE, 504 S. Neil St. Retail only.

**Chicago, Ill.**—CHICAGO DIETETIC SUPPLY HOUSE, 1750 W. Van Buren St. "Cellu Soya-maise," "Cellu Soy Flakes," "Cellu Soy Bean Wafers," "Cellu Soy Bean Spread," "Cellu Soy Nuts," and "Cellu Canned Green Soybeans."

**Chicago 14, Ill.**—WM. H. LEAHY CO., INC., 918 Armitage Ave. Wholesaler.

**Camden 5, N. J.**—BRILLIANT FOODS, P. O. Box 912, E. Camden Sta.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1294. Health food distributor.

**Olmsted Falls, Ohio**—NATURAL FOODS. Handler.

### LECITHIN

**Chicago 39, Ill.**—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

**Decatur, Ill.**—A. E. STALEY MFG. CO.

### SOYBEAN BLUE BOOK

# Nature locked the cupboard

...but ADM found the key

Nature was generous when she created the soybean.

In each tiny bean are precious ingredients . . . raw materials for modern industry. The problem, then, is to unlock this rich supply . . . to extract and separate, to purify and improve . . . to get out everything which nature put in.

Take the meal, for example. It's naturally rich in protein, but without man's help, much of this protein remains "locked-up" in an undigestible form.

ARCHER-DANIELS-MIDLAND has developed a carefully controlled

cooking process which releases the full growth promoting power. The result? 20% greater protein efficiency . . . and extra gains worth as much as \$91 more per ton than those produced by some soybean oil meals.

This is nothing new for ADM. For 25 years, it has been a leader in creating new and better uses for the soybeans you grow. Scores of products born in ADM laboratories and produced in ADM processing plants play vital roles in America's daily life.

This is the way your markets are built . . . and this is how they will continue to grow.

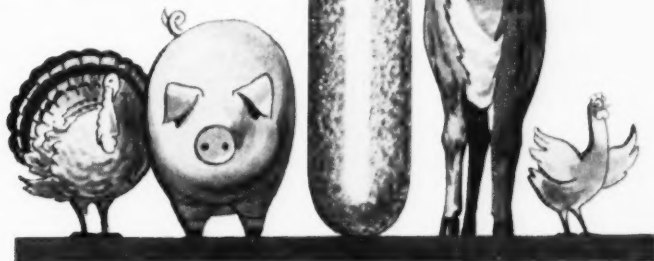
## Some ADM Products made from Soybeans

- ADM Soybean Brew Flakes
- Admex 710 (a plasticizer for vinyl resins)
- Archer "S" (Salad Oil)
- Archer 44% Soybean Oil Meal, Pea-Size, Pellets, Flakes
- Archer 50% Low Fibre Soybean Oil Meal
- Archer Booster Feeds
- R-Lecin (Soybean Lecithin)
- Bakers Nutrisoy
- Daniels' Supreme
- Kaysoy
- Nutriwhip
- Packers Granular
- Paint Vehicles
- Soya Fatty Acids
- Soy Flour

## Archer-Daniels-Midland Co.

600 Roanoke Bldg. • Minneapolis 2, Minn.

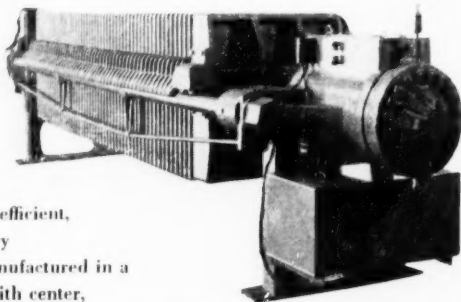
*Creating New Value from America's Harvests*



# SPERRY

**FIRST FOR INDUSTRIAL FILTRATION**

## FILTER PRESSES



**L**eaders in the soybean industry specify Sperry for efficient, economical filtration. Sperry Plate Filter Presses are manufactured in a wide variety of materials with center, side, or corner feed—open or closed delivery. Available in many standard and special sizes to suit your requirements. For the answers to your filtration problems consult a Sperry engineer.

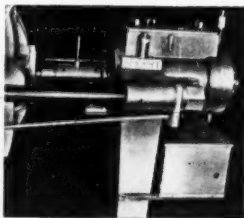
## FILTER BASES



Sperry carries a complete line of filter bases. Bases of cotton, paper, wool, synthetics, glass and woven metals are available as well as special cloths to meet unusual requirements.

## CLOSING DEVICES

Six different types of closing devices are available from Sperry. The latest development is the EHC-L Electric Hydraulic Closing Device which provides a simple, positive, and precise means of press closing.



**D. R. SPERRY & COMPANY — BATAVIA, ILLINOIS**

*Filtration Engineers for Over 50 Years*

Eastern Sales Representative  
Hendr. E. Jacoby, M.E.  
205 East 42nd St.  
New York 17, N.Y.  
Phone: MUrray Hill 4-3581

**SPERRY**  
**FILTER BASES**

Western Sales Representative  
B. M. Pilhashy  
833 Merchants Exchange Bldg.  
San Francisco 4, Calif.  
Phone: DO 2-0375

## SOY FOODS—(Continued)

Fort Wayne, Ind.—CENTRAL SOYA CO., INC.  
Clinton, Iowa—PILLSBURY MILLS, INC.,  
201 Wilson Bldg.  
Minneapolis, Minn.—GENERAL MILLS, INC.,  
700 General Mills Bldg.  
New Brunswick, N. J.—W. A. CLEARY CORP.,  
Also Chicago, Ill., and Belleville, Ont. Manufactures purified and crude soya lecithin.  
New York 17, N. Y.—ENCO CHEMICAL CORP., 441 Lexington Ave.  
New York 4, N. Y.—ROSS & ROWE, INC.,  
50 Broadway. Also Wrigley Bldg., Chicago 11, Ill.  
New York 6, N. Y.—SUPERIOR MATERIALS, INC., 120 Liberty Street. Soya lecithin.  
Syracuse, N. Y.—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204. Lecithin paste and capsules.  
Woodside 77, L. I., N. Y.—AMERICAN LECITHIN CO., INC., 57-01 32nd Ave. Soybean lecithins and derivatives; lecithinated flours. Dietary supplements based on lecithin.  
Belleville, Ont., Canada—LECITHIN PRODUCTS (CANADA) LTD., 48 Dundas St. W. Subsidiary of W. A. Cleary Corp., New Brunswick, N. J.  
London, E. C. 3, England—SOYA FOODS, LTD. 40 St. Mary Ave. Plant at Cardiff, South Wales. Soya lecithin 60/40.  
Hamburg-Wilhelmsburg, Germany—HANSA-MUELE A.G., Kohlbrandstr. 1. "Hansacithin Extra" lecithin.  
Neuss/Rhein, Germany—C. THYWISSEN, Olfabrik.

### MACARONI, SPAGHETTI, NOODLES

Champaign, Ill.—COCHRAN HEALTH FOOD STORE, 504 S. Neil St. Handler.

### MEAT SUBSTITUTES

Arlington, Calif.—LOMA LINDA FOOD CO. Viennese and vegelona.  
Champaign, Ill.—COCHRAN HEALTH FOOD STORE, 504 S. Neil St. Handler.  
Chicago 14, Ill.—WM. H. LEAHY CO., INC., 918 Armitage Ave. Wholesale dist.  
Olmsted Falls, Ohio—NATURAL FOODS. Handler.  
Birdsboro, Pa.—STERNER'S SPECIAL FOODS, R. 2. Manufacturer of meat substitutes.  
Madison College, Tenn.—MADISON FOODS.

### PROTEIN SUPPLEMENT

Chicago 10, Ill.—FEARN SOYA FOODS, 355 W. Ontario St. "Ivan Johnson's" hi-protein food (food supplement).  
Galesburg, Ill.—GUNTHER PRODUCTS INC., 600 E. Main St. Vegetable proteins.

### PUDDING POWDERS

Brockville, Ont., Canada—MacDOWELL BROS., P. O. Box 141. Also at Ogdensburg, N. Y. Dietary foods.

### SALAD AND COOKING OILS, SHORTENING

Oakland 12, Calif.—COLDSTREAM PRODUCTS CO., div of Salem Commodities, Inc., 405 14th St., Rm. 501. Plant at Denison, Tex. "Royal Satin" shortening.  
Wilmington, Calif.—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave. Shortening, salad and cooking oil, flaked oils.

## SOYBEAN BLUE BOOK

Savannah, Ga.—SOUTHERN COTTON OIL CO. Shortening.

Chicago 9, Ill.—ARMOUR & CO., Union Stock Yards. Shortening and salad oil.

Chicago, Ill.—SOUTHERN COTTON OIL CO. Shortening.

Chicago 9, Ill.—WILSON & CO., INC., 41st and Ashland Ave. Shortening, cooking and salad oil.

Decatur, Ill.—A. E. STALEY MFG. CO. Salad and cooking oil "Edsoy."

Jacksonville, Ill.—MRS. TUCKER'S PRODUCTS, div. of Anderson, Clayton & Co., P. O. Box 368, R. 6.

Gretna, La.—SOUTHERN COTTON OIL CO. Shortening.

Opelousas, La.—OPELOUSAS OIL REFINERY, 909 Railroad Ave. Affiliate of Cotton Products Co., Inc. Also operates Opelousas Oil Mill. Vegetable oil shortening and soybean salad oil.

Baltimore 3, Md.—WM. SCHLUDERBERG, T. J. KURDLE CO., 3800-4000 E. Baltimore St., P. O. Box 476. Shortening, cooking and salad oil.

Detroit 38, Mich.—SHEDD BARTUSH FOODS, INC., 14401 Dexter Blvd. Also plants at Louisville 8, Ky.; Elgin, Ill.; Dallas, Tex.; Greenville, S. C. Shedd's old style dressing, Shedd's salad products.

St. Louis 7, Mo.—BLANTON CO., 3400 N. Wharf. Shortening, salad and cooking oils. Hydrogenated fats and oils.

Bayonne, N. J.—SOUTHERN COTTON OIL CO. Shortening.

Jersey City, N. J.—ARMOUR & CO., 423 17th St. Shortening, cooking and salad oils.

Newark, N. J.—COLONIAL PACKING CORP., 173 Blanchard St. Other plants Italian Cook Oil Corp. and Pem Sales Co., Inc. Mayonnaise, salad dressing and French dressing.

Buffalo, N. Y.—SPENCER KELLOGG & SONS, INC., 98 Delaware Ave. "Spensoy" salad oil; "Kelko," "Kel Exo," "Kel Kake" and "Kel-Fry" shortenings.

New York 17, N. Y.—BEST FOODS, INC., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas Tex.; and San Francisco, Calif. "VEO" shortening.

New York 10, N. Y.—E. F. DREW & CO., INC., 15 E. 26th St. Shortening and salad oil.

New York 22, N. Y.—LEVER BROS. CO., 390 Park Ave. Plants at 101 River Rd., Edgewater, N. J.; 1300 Calumet Ave., Hammond, Ind. Vegetable shortening.

Cincinnati, Ohio—PROCTER & GAMBLE CO., Gwynne Bldg. Shortening.

Cleveland 14, Ohio—GLIDDEN CO., Durkee Famous Foods div., 1396 Union Commerce Bldg. Plants at Berkeley 10, Calif.; Chicago 47, Ill.; Louisville 1, Ky.; Elmhurst, L. I., N. Y. Standard and hydrogenated shortenings, cooking and salad oils.

Columbus 34, Ohio—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave. Shortening.

Oklahoma City, Okla.—WILSON & CO., INC., P. O. Box 1905. Standard and hydrogenated shortening, cooking and salad oils.

Chattanooga, Tenn.—LOOKOUT OIL & REFINING CO., div of Armour & Co., 4608 Kirkland Ave. Shortenings, cooking and salad oils, hydrogenated fats and oils.

Chattanooga, Tenn.—WILSON & CO., INC. Shortening, cooking and salad oils.

Memphis 8, Tenn.—CUDAHY PACKING CO., 2800 Chelsea Ave. Shortening and salad oil.



## SOY FOODS—(Continued)

**Memphis, Tenn.**—HUMKO CO., 1702 N. Thomas St. Hydrogenated vegetable shortening, salad oil.

**Memphis, Tenn.**—SOUTHERN COTTON OIL CO. Shortening.

**Fort Worth, Tex.**—ARMOUR & CO. Cooking and salad oils, shortening, hydrogenated fats and oils.

**Sherman, Tex.**—MRS. TUCKER'S PRODUCTS, div. of Anderson, Clayton & Co., 1201 E. Pecan.  
**Cudahy, Wis.**—CUDAHY BROS. CO. Shortening.

**Toronto, Ont., Canada**—LEVER BROS. LTD., 299 Eastern Ave. Shortening.

**W. Toronto 9, Ont., Canada**—CANADA PACKERS LTD. Plants also located in Montreal, Winnipeg, Edmonton and Vancouver. Lard compound and salad oil.

## SARDINE PACKING

**Eastport, Maine**—HOLMES PACKING CORP., 7 Madison St. Plant also at Rockland, Maine. Soybean oil used as packing medium in sardines.

## SAUSAGE BINDERS

**Chicago 12, Ill.**—CUSTOM FOOD PRODUCTS, INC., 701 709 N. Western Ave. Sausage and loaf binders for sausage trade. Hamburger and loaf seasonings and binders for institutional trade.

**Chicago 39, Ill.**—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

**Decatur, Ill.**—SPENCER KELLOGG & SONS, INC. Binders for sausage making and for canned dog food—"Special X" low fat soy flour, "Meatone" low fat soy grits, "Kel Soysoy" defatted soy flour and grits.

**Decatur, Ill.**—A. E. STALEY MFG. CO. Meat packers' soy flour and soy grits.

## SEASONINGS

**Chicago 12, Ill.**—CUSTOM FOOD PRODUCTS, INC., 701 N. Western Ave. Manufacturer of seasonings.

**Chicago, Ill.**—JOHN SEXTON & CO., Sexton Square. Other plants at Long Island City, Boston, Philadelphia, Pittsburgh, Detroit, Atlanta, Dallas, San Francisco. "Magic" seasoning.

**Camden 5, N. J.**—BRILLIANT FOODS, P. O. Box 912, E. Camden Sta.

**Elmhurst, L. I., N. Y.**—GLIDDEN CO., Durkee Famous Foods div., Corona Ave and 94th St. Seasonings and condiments.

**Birdsboro, Pa.**—STERNER'S SPECIAL FOODS, R. 2. Manufacturer of seasonings employing soybeans as an ingredient.

## SOUPS

**Chicago 12, Ill.**—CUSTOM FOOD PRODUCTS, INC., 701 N. Western Ave. Manufacturer.

**Camden 5, N. J.**—BRILLIANT FOODS, P. O. Box 912, E. Camden Sta.

**Birdsboro, Pa.**—STERNER'S SPECIAL FOODS, R. 2. Manufacturer of soya soup.

## SOYBEAN OIL

**Decatur, Ill.**—A. E. STALEY MFG. CO. Edible oils.

**Newark, N. J.**—COLONIAL PACKING CORP., 174 Blanchard St. Other plants; Italian Cook Oil Corp. and Penn Sales Co., Inc. Edible oils.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 20th St.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204.

**Cincinnati, Ohio**—PROCTER & GAMBLE CO., Gwynne Bldg. Edible oils.

**Cleveland 14, Ohio**—GLIDDEN CO., Durkee Famous Foods div., 196 Union Commerce Bldg. Edible oil refineries at Berkeley 10, Calif.; Louisville 1, Ky.; Chicago 47, Ill.; Elmhurst, L. I., N. Y.

**Columbus 34, Ohio**—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave. Edible Oil.

**Philadelphia, Pa.**—C. F. SIMONIN'S SONS, Tioga and Belgrade Sts. Edible oil refiner.

## SOYBEANS FOR COOKING AND SPROUTING

**Los Angeles, Calif.**—ORIENTAL FOODS, INC., 4100 S. Broadway.

**Hudson, Iowa**—STRAYER SEED FARMS.  
**Camden 5, N. J.**—BRILLIANT FOODS, P. O. Box 912, E. Camden Sta.

## SOY BUTTER

**Detroit 38, Mich.**—SHEDD BARTUSH FOODS, INC., 14401 Dexter Blvd. Manufactures "Willow Run" soy spread.

## SOY CHEESE

**Mt. Vernon, Ohio**—LOMA LINDA FOOD CO., eastern div., P. O. Box 388.

**Madison College, Tenn.**—MADISON FOODS. "Chez O Soy."

## SOY FLOUR, FLAKES AND GRITS

**Alhambra, Calif.**—EL MOLINO MILLS, 3072 W. Valley Blvd. Grits, meal, flour, powder.

**Arlington, Calif.**—LOMA LINDA FOOD CO. Packer and distributor of soy flour.

**Chicago 10, Ill.**—FEARN SOYA FOODS, 355 W. Ontario St. "Dr. Fearn's" unbleached wheat flour and soya; also soy grits.

**Chicago 39, Ill.**—GLIDDEN CO., soya products division, 1825 N. Laramie Ave. Full fat, low fat and defatted soy flours, flakes and grits.

**Chicago, Ill.**—GRIFFITH LABORATORIES, 1415 W. 37th St. Flour, Grits.

**Decatur, Ill.**—SPENCER KELLOGG & SONS, INC. Full fat, low fat and defatted flour; low fat and defatted grits.

**Decatur, Ill.**—A. E. STALEY MFG. CO. Extracted hi-fat and low-fat flour, Grits, Flakes.

**Des Moines 9, Iowa**—SOY PRODUCTS CO., 7 7th St. Soy flour.

**Battle Creek, Mich.**—BATTLE CREEK FOOD CO. Soya flakes with gluten, soy flour, 2 lb. and 5 lb. bags.

**Blooming Prairie, Minn.**—FARMERS CO-OP ELEVATOR ASSN., soybean processing div. "Prairie" 44% toasted soy flakes.

**Minneapolis 2, Minn.**—ARCHER-DANIELS-MIDLAND CO., 600 Roanoke Bldg. Soy flour, soy grits, "ADM" soybean brew flakes.

**Minneapolis 2, Minn.**—PILLSBURY MILLS, INC., 600 Pillsbury Bldg., feed and soy div. Bakery and family flour.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204. "Vi-Vi-Ta" soy flour, hi-fat; soy flakes.

**Birdsboro, Pa.**—STERNER'S SPECIAL FOODS, R. 2. Handler of soy flour.

**Brockville, Ont., Canada**—MacDOWELL BROS., P. O. Box 141. Also at Ogdensburg, N. Y. Soybean flour specially processed for diabetics.

**Toronto, Ont., Canada**—VICTORY MILLS LTD., 28 Fleet St. E. "Indosoy," industrial soy flour; "Soywhite," fat free flour.

## SOYBEAN BLUE BOOK



## SOY FOODS—(Continued)

London, E.C.3, England—SOYA FOODS LTD., 40 St. Mary Ave. Plant at Cardiff, South Wales. Affiliate of Spillers Ltd. "Soyolk," full-fat processed soya flour; defatted soya flour.

### SOY FLOUR MIXES

Chicago 10, Ill.—FEARN SOYA FOODS, 355 W. Ontario St. "Dr. Fearn's Soy O" wholewheat pancake flour; also unbleached white flour and soy pancake flour.

Chicago 3, Ill.—GOLDEN MIX, INC., 105 W. Monroe St. "Golden Mix" for griddle cakes, waffles, breading and frying batter.

Minneapolis 2, Minn.—PILLSBURY MILLS, INC., 600 Pillsbury Bldg. feed and soy div.

Red Wing, Minn.—SPECIAL FOODS CO. Bread mix. Concentrate for bakers.

Red Wing, Minn.—STURDIWHEAT CO., Citizens Fund Bldg. Plant, 970 Raymond Ave., St. Paul. "V 932" special protein bread mix.

### SOY MILK

Champaign, Ill.—COCHRAN HEALTH FOOD STORE, 504 S. Neil St. Handler.

Chicago, Ill.—CHICAGO DIETETIC SUPPLY HOUSE, 1750 W. Van Buren St. Canned soy milk.

Chicago 10, Ill.—FEARN SOYA FOODS, 355 W. Ontario St. "Dr. Fearn's" pure soy powder for making soy milk.

Battle Creek, Mich.—BATTLE CREEK FOOD CO. "Soy Acidophilus."

Camden 5, N. J.—BRILLIANT FOODS, P. O. Box 912, E. Camden Sta. Malted milk.

Syracuse, N. Y.—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204.

Mt. Vernon, Ohio—LOMA LINDA FOOD CO., eastern div., P. O. Box 388. Powdered and liquid soy milk.

Olmsted Falls, Ohio — NATURAL FOODS. Dried and liquid.

London, W.1, England—MILK & PROTEIN PRODUCTS LTD., 8/9 Great Pulteney St., Piccadilly. "Nedae" milk powders.

### SOY SAUCE

Glendale, Ariz.—SHOWA SHOYU BREWING CORP., P. O. Box 246.

Arlington, Calif.—LOMA LINDA FOOD CO.

Los Angeles, Calif. — ORIENTAL FOODS, INC., 4109 S. Broadway.

Chicago 12, Ill.—CUSTOM FOOD PRODUCTS, INC., 701 N. Western Ave. Manufacturer.

Chicago, Ill.—GREAT CHINA FOOD PRODUCTS CO., 2530-58 S. State St.

Chicago, Ill.—JOHN SEXTON & CO., Sexton Square. Other plants at Long Island City, Boston, Philadelphia, Pittsburg, Detroit, Atlanta, Dallas, San Francisco. Chop sues, sirloin club, mushroom and smoke house sauces.

Decatur, Ill.—A. E. STALEY MFG. CO.

Columbia City, Ind.—ORIENTAL SHOWYOU CO., INC.

Rockland, Mass.—SOM TOY CHINESE FOOD PRODUCTS, INC., 65 Grove St. Bottler of soy sauce.

Archbold, Ohio—LACHOY FOOD PRODUCTS, div. Beatrice Foods Co.

Birdsboro, Pa. — STERNER'S SPECIAL FOODS, R. 2. Handler of soy sauce.

### SPROUTS

Columbia City, Ind.—ORIENTAL SHOWYOU CO., INC. Mung bean sprouts.

### TOPPINGS

Buffalo, N. Y.—RICH PRODUCTS CORP. "Whip Topping."

### VITAMINS

Azusa, Calif.—WHY & KEVO PRODUCTS CO., LTD. Subsidiary of G. M. Bartlett Co. "Kevoctts" soy food products.

New York 10, N. Y.—E. F. DREW & CO., INC., 15 E. 20th St.

### WHIPPING AGENTS

Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

Chicago, Ill.—JOHN SEXTON & CO., Sexton Square. Other plants at Long Island City, Boston, Philadelphia, Pittsburg, Detroit, Atlanta, Dallas, San Francisco. "Whip" powder.

Galesburg, Ill.—GUNTHER PRODUCTS INC., 600 E. Main St. Manufactures vegetable proteins and derivatives.

Minneapolis 2, Minn.—ARCHER-DANIELS-MIDLAND CO., 600 Roanoke Bldg. "Nutriwhip."

New Brunswick, N. J.—W. A. CLEARY CORP. Also Chicago, Ill.; Belleville, Ont.

New York, N. Y.—WHITSON PRODUCTS, div. of Borden Co., 350 Madison Ave. P. 973 "Soyco."

London, W. 1, England—MILK & PROTEIN PRODUCTS LTD., 8/9 Great Pulteney St., Piccadilly. Manufactures "Hi whip," vegetable albumen.

D. J. Guillory

L. Pat Lobban

## Guillory Sales Company

### BROKERS

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Phones L.D. 451 - L.D. 446

Members

New York Produce Exchange

Memphis Merchants Exchange

## MANUFACTURERS OF MARGARINE

### ALABAMA

Sunnyland Refining Co., 3330 10th Ave., N. Birmingham.

### ARKANSAS

Osceola Foods, Inc., P. O. Box 232, Osceola.

### CALIFORNIA

Best Foods, Inc., 1890 Bryant St., San Francisco.  
Cudahy Packing Co., 803 Macy St., Los Angeles 54.

Glidden Co., d.b.a. Durkee Famous Foods, 2900 5th St., Berkeley 2.

Kraft Foods Co., 5657 E. Slauson Ave., Los Angeles.

Standard Brands, Inc., 921 98th Ave., Oakland.  
C. A. Swanson & Sons, 1375 Sansome St., San Francisco.

Swift & Co., 3750 Jewel Ave., Los Angeles.  
Vegetable Oil Products Co., Inc., 401 Canal Ave., Wilmington.

Wilson & Co., Inc., 960 N. Vignes St., Los Angeles.

### GEORGIA

Glidden Co., d.b.a. Durkee Famous Foods, New Mead Highway and San Carlos Dr., Macon.

Kraft Foods Co., 248 Chester Ave. S.E., Atlanta.  
Kraft Foods Co., 1295 DeKalb Industrial Way, Decatur.

Mar-Gold Corp., 1275 Pryor St. S.W., Atlanta.  
Southern Harvest, Inc., 334 Smith Ave., Thomasville.

Standard Brands, Inc., margarine div., 1630 Huber St. N.W., Atlanta.

Swift & Co., 566 Wells St. S.W., Atlanta.

### ILLINOIS

Armour & Co., Union Stock Yards, Chicago 9.  
Best Foods, Inc., 2816 S. Kilbourn Ave., Chicago.

Cudahy Packing Co., 91st and Baltimore Sts., Chicago.

Friedman Mfg. Co., Union Stock Yards, Chicago 9.

Glidden Co., d.b.a. Durkee Famous Foods, 3702 S. Iron St., Chicago.

Kraft Foods Co., 500 Peshtigo Ct., Chicago 90.  
Shedd-Bartush Foods, Inc., 51 N. State St., Elgin.

Swift & Co., Union Stock Yards, Chicago 9.  
Mrs. Tucker's Products, div. of Anderson, Clayton & Co., Jacksonville.

Wilson & Co., Inc., 4100 S. Ashland Ave., Chicago 9.

### INDIANA

Lever Bros., Good Luck Products, Hammond.  
Standard Brands, Inc., 1102 Roosevelt Ave., Indianapolis.

### KANSAS

Swift & Co., Adams and Berger Sts., Kansas City.

### LOUISIANA

Blue Plate Foods, Inc., 1315 S. Jefferson Davis Parkway, New Orleans.

### MARYLAND

J. H. Filbert, Inc., 3701 Southwestern Blvd., Baltimore 29.

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## **MANUFACTURERS OF MARGARINE—(Continued)**

### **MICHIGAN**

Shedd Bartush Foods, Inc., 14401 Dexter Blvd.,  
Detroit 6.

### **MISSOURI**

Blanton Co., 3400 N. Wharf, St. Louis 7.  
Carthage Creamery Co., Carthage.  
Kent Products, Inc., 612 Broadway, Kansas  
City 6.

### **NEBRASKA**

C. A. Swanson & Sons, 214 N. 10th St., Omaha.

### **NEW JERSEY**

Armstrong Packing Co., div. of Swift & Co.,  
154 9th St., Jersey City.  
Best Foods, Inc., 99 Ave. A, Bayonne.  
E. F. Drew & Co., Inc., 416 Division St.,  
Boonton.  
Kraft Foods Co., 31 Evans Terminal, Hillside.  
Lever Bros., Good Luck Products, Edgewater.  
Swift & Co., 154 9th St., Jersey City.

### **OHIO**

Capital City Products Co., 525 W. 1st Ave.,  
Columbus.  
Churngold Corp., 50 Walnut St., Cincinnati.  
Glidden Co., d.b.a. Durkee Famous Foods, St.  
Mary's and Ontario Sts., Norwalk.  
Miami Margarine Co., 107 E. Pearl St., Cin-  
cinnati.

### **OKLAHOMA**

Wilson & Co., Inc., P. O. Box 1905, Oklahoma  
City.

### **SOUTH CAROLINA**

Shedd Bartush Foods, Inc., New Buncombe  
Rd., Greenville.

### **TENNESSEE**

Armour & Co., 4608 Kirkland Ave., Chat-  
tanooga.  
Cudahy Packing Co., 2800 Chelsea Ave.,  
Memphis.

### **TEXAS**

Armour Creameries, Inc., Collier & Son, Inc.,  
joint ventures, d.b.a. Collier Industries, 416-500  
E. 9th St., Fort Worth.  
Best Foods, Inc., 701 Bellevue St., Dallas.  
Kraft Foods Co., Belt Line Rd., Garland.  
Salem Commodities, Inc., d.b.a. Coldstream  
Products Co., 1406 W. Washington St., Denison.  
Shedd Bartush Foods, Inc., 1729 Irving Blvd.,  
Dallas.  
Shedd Bartush Foods, Inc., 409 N. Cherry St.,  
San Antonio.  
Standard Brands, Inc., 916 S. Harwood St.,  
Dallas.  
Swift & Co., Stock Yards Sta., Fort Worth.  
Mrs. Tucker's Products, div. of Anderson,  
Clayton & Co., Sherman.

### **CANADA**

Canada Packer Ltd., W. Toronto 9, Ontario.

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Mrs. American Housewife bought 1,325 million pounds of margarine in 1953.\*

With every pound her margarine savings earned a "bonus" sufficient to buy 2½ quarts of good whole milk.

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\*Based on U. S. Department of Agriculture statistics and forecasts.

## **National Association of Margarine Manufacturers**

**Munsey Building**



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## INDUSTRIAL PRODUCTS EMPLOYING SOYBEANS

### CAULKING COMPOUNDS, FLOOR TILE

New York 16, N. Y.—JOHNS-MANVILLE, 22 E. 40th St. Caulking compounds. Floor tile.

### COATED FABRICS, LEATHER DRESSING

Chicago 39, Ill.—GLIDDEN CO., soy products div., 1825 N. Laramie Ave. "Alpha" protein for linoleum and textile coverings; leather top-finishes; rubber latex dispersion and tire cord sizing; printing and drawing inks; and sealing compounds. "Prosein" and "Prosoy F-SG" for linoleum and textile coverings, emulsions and plaster. "Mulsoya," water soluble derivative of isolated soybean proteins, for textile size.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kelkote" pulverized commercial soy protein for protective coatings, linoleum, water emulsion paint finishes. Leather dressing.

Louisville, Ky.—BUCKEYE COTTON OIL CO. Isolated protein for use in beater sizing, leather dressing.

Cincinnati, Ohio—DRACKETT CO., 5020 Spring Grove Ave. Isolated protein for use in beater sizing, leather dressing.

Columbus 16, Ohio — COLUMBUS COATED FABRICS CORP., 7th and Grant Aves. Oil-cloth, plastic sheeting, wall coverings, upholstery materials and shade cloth.

### FIRE-FIGHTING FOAM

Chicago 39, Ill.—GLIDDEN CO., soy products div., 1825 N. Laramie Ave.

West Chester, Pa.—NATIONAL FOAM SYSTEM, INC. "Aer-O-Foam."

### GLUES, PLYWOOD ADHESIVES

Chicago 39, Ill.—GLIDDEN CO., soy products div., 1825 N. Laramie Ave. Adhesive meal (soybean) for use in manufacture of plywood adhesives.

Chicago 16, Ill.—PAISLEY PRODUCTS, INC., 1770 Canalport Ave. Glues, adhesives.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kelkote" pulverized commercial soy protein and "Soytex" adhesive soy flour. Defatted soy flakes.

Springfield, Mass.—MONSANTO CHEMICAL CO., plastics div. "Lausein" soybean glue. "Lauzize," a pulverized soy protein.

Seattle 4, Wash.—AMERICAN MARIETTA CO., 3400 13th Ave, S.W. Adhesive for plywood, woodworking and allied industries.

### INSECTICIDES

Chicago 39, Ill.—GLIDDEN CO., soy products div., 1825 N. Laramie Ave. "Spray-soy," spreader and sticker for various sprays, and emulsifier for oil emulsion sprays.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Special X" low fat soy flour, defatted soy flour.

### LECITHIN

New York 6, N. Y.—SUPERIOR MATERIALS, INC., 120 Liberty St. Soya lecithin for paints and inks.

### LUBRICATING GREASES

Chicago 80, Ill.—STANDARD OIL CO. (INDIANA), 910 S. Michigan Ave.

### PAINT RAW MATERIALS

New York 17, N. Y.—HEYDEN CHEMICAL CORP., 342 Madison Ave. "Pentek" (Pentaerythritol Technical—a polyol used with soybean oil and soy fatty acids in the manufacture of synthetic drying oils, alkyd resins and varnishes).

### PAINTS AND VARNISHES

Wilmington, Del.—E. I. du PONT de NEMOURS & CO., INC. Soybean oil in paints, alkyd resin varnishes.

Chicago 39, Ill.—GLIDDEN CO., soy products div., 1825 N. Laramie Ave. "Alpha" protein, "Prosein" and "Prosoy F-SG" for water-thinned type paints. Soybean split fatty acids for use in paints and varnishes.

Chicago 11, Ill.—ILLINOIS FARM SUPPLY CO., 100 E. Ohio St. "Soyoil" paints and varnishes.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kelkote" pulverized commercial soy protein. "Drisoay" drying soybean oil. Complete line of refined industrial soybean oils.

Peoria, Ill.—MONARCH PAINT CO., 3400 S. Washington St. "Sta Par," "Plastic Plaster," soy oil paints.

Louisville, Ky.—BUCKEYE COTTON OIL CO. Isolated protein for water paints.

Louisville 8, Ky.—JONES-DABNEY CO., 1481 S. 11th St. Div. of Devco & Reynolds Co. Varnishes.

North Kansas City 16, Mo.—GLASTIC CORP., 2012 Burlington. Manufacturer of 100% soybean oil industrial finishes, soybean oil base paints, texture finishes.

St. Louis 7, Mo.—P. D. GEORGE CO., 5200 N. 2nd St. Exterior building paints, industrial paints, interior paints, varnishes.

New York 6, N. Y.—SUPERIOR MATERIALS, INC., 120 Liberty St. Soyates used as driers in paints and inks.

Cincinnati, Ohio—DRACKETT CO., 5020 Spring Grove Ave. Isolated protein for use in water paints including latex and resin emulsion types.

Cleveland, Ohio — SHERWIN WILLIAMS CO. Paints, enamels. Paint grinding oils. Alkyd resin varnishes.

Pittsburgh 22, Pa. — PITTSBURGH PLATE GLASS CO., 632 Fort Duquesne Blvd. Paints, varnishes and lacquers.

Garland, Tex.—DESOTO PAINT & VARNISH CO., Forest Land and Shuloh Rd., P. O. Box 186. Enamels and industrial finishes.

### PAPER SIZINGS, WALL PAPER AND WALLBOARD COATINGS

Aurora, Ill.—GLENN DAVIDSON, P. O. Box 510. "Soyize" (technical soy flour) and "Soyein" (isolated soy protein) for use as industrial adhesives.

Chicago 39, Ill.—GLIDDEN CO., soy products div., 1825 N. Laramie Ave. "Alpha" protein, "Prosein" and "Prosoy F-SG" for paper sizing and coating operations, and wallboard coatings.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. Paper sizings, wall paper and wallboard coatings.

Kankakee, Ill. — GENERAL MILLS, INC., chemical div., S. Kensington Rd. Polyamide resin for coating paper in manufacture of containers.

## INDUSTRIAL PRODUCTS—

### (Continued)

**Louisville, Ky.**—BUCKEYE COTTON OIL CO. Isolated protein for use in paper coatings.

**Cincinnati, Ohio**—DRACKETT CO., 5020 Spring Grove Ave. Isolated protein for use in paper coatings.

### PLASTICS

**Newark 5, N. J.**—REILLY TAR & CHEMICAL CORP., 191 Doremus Ave. Phenolic plastics extended with soybean oil.

### PROTEIN FIBERS

**Chicago 39, Ill.**—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. "Alpha" protein, used in synthetic wool fibers.

### RESINS

**Chicago 39, Ill.**—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. "Prosoy G." extender for resin adhesives.

**Chicago 16, Ill.**—PAISLEY PRODUCTS, INC., 1770 Canalport Ave.

**Kankakee, Ill.**—GENERAL MILLS, INC., chemical div., S. Kensington Rd. Polyamide resin for coating papers and delicately machined metal parts.

**Louisville 8, Ky.**—JONES DABNEY CO., 1481 S. 11th St. Div. of Devco & Reynolds Co. Synthetic resins.

**Detroit 26, Mich.**—REICHOLD CHEMICALS, INC. Alkyd resins.

**Cleveland, Ohio**—SHERWIN WILLIAMS CO.

### SOAPS

**Chicago 39, Ill.**—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. Soybean split fatty acids for use in soaps.

**Newark, N. J.**—COLONIAL PACKING CORP., 174 Blanchard St. Other plants Italian Cook Oil Corp. and Pem Sales Co., Inc. Soapstock.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St.

**New York 6, N. Y.**—SUPERIOR MATERIALS, INC., 120 Liberty St.

**Cincinnati, Ohio**—PROCTER & GAMBLE CO., Gwynne Bldg.

**Dayton, Ohio**—DAVIES-YOUNG SOAP CO.

**W. Toronto 9, Ont., Canada**—CANADA PACKERS LTD. Plants also located at Montreal, Winnipeg, Edmonton and Vancouver.

## SOYBEAN FATTY ACIDS

**Los Angeles 22, Calif.**—VEGETABLE OIL PRODUCTS CO., INC., Viscoplene div., 5568 E. 61st St. Home office Wilmington, Calif. Manufacturer of soybean fatty acids and glycerine.

**Chicago 9, Ill.**—ARMOUR CHEMICAL DIV., 1355 W. 31st St.

**Chicago 39, Ill.**—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

**Kankakee, Ill.**—GENERAL MILLS, INC., chemical div., S. Kensington Rd.

**Harrison, N. J.**—WOBURN CHEMICAL CORP., 1200 Harrison Ave. Affiliate of Woburn Degreasing Co., Woburn, Mass. Soybean fatty acids and acidulated soya soapstocks used primarily in paint, varnish and soap industries.

**New York, N. Y.**—ACME HARDESTY CO., 60 E. 42nd St. Plant at Tioga and Cedar Sts., Philadelphia.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Plant at Bonton, N. J. Soybean fatty acids, glycerine and detergents.

**New York 17, N. Y.**—A. GROSS & CO., 295 Madison Ave. Plant at 652 Doremus Ave., Newark, N. J.

**New York 4, N. Y.**—SOUTHERN COTTON OIL CO., 25 Broad St. Plant at 4421 W. 31st St., Chicago 23. Main office 210 Baronne St., New Orleans 12. Subsidiary of Wesson Oil & Snowdrift Co. Soapstocks, fatty acids.

**Celina, Ohio**—CELINA STEARIC ACID CO., 419 S. Ash St. Stearic acid and fatty acids.

**Cincinnati 2, Ohio**—EMERY INDUSTRIES, INC., 4206 Carew Tower. Manufactures "Emery 619" distilled soya-type fatty acid. "Plastolein 9315" double distilled liquid fatty acid. "Emersol" process for separation of liquid and solid components of soya fatty acids. Fractionation by selective solvent crystallization.

**Columbus 16, Ohio**—CAPITAL CITY PRODUCTS CO., distillation products div., 525 W. 1st Ave.; P. O. Box 569. Plant at 1st and Perry, Columbus. Capital 172 distilled and Capital 182 double distilled soya fatty acids.

**Philadelphia 48, Pa.**—WILSON MARTIN DIV., Wilson & Co., Inc., Snyder Ave and Swanson St. Affiliate of Wilson & Co., Chicago.

**Providence 1, R. I.**—ARNOLD, HOFFMAN & CO., INC., 55 Canal St. Branch offices 2130 N. Tryon St., Charlotte, N. C., and 370 North St., Teterboro, N. J. Alcohol 250, a dyeing assistant and substitute for sulfonated castor oil.

## TABOR GRAIN & FEED COMPANY

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**American Feed Manufacturers Association**

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## SERVICES FOR THE SOYBEAN INDUSTRY

### ADVISORS FARM MANAGEMENT

St. Louis 8, Mo.—DOANE AGRICULTURAL SERVICE, INC., Box 8, 5142 Delmar Blvd.

### ANALYSTS

\* Official Meal Chemists National Soybean Processors Association.

† Official Oil Chemists National Soybean Processors Association.

Los Angeles 23, Calif.—GEO. W. GOOCH LABORATORIES, LTD.,\* 2580 E. 8th St. Analytical and consulting chemist.

San Francisco, Calif.—CURTIS & TOMKINS, LTD.,\* 276 Front St. Sampler.

Atlanta, Ga.—LAW & CO.,\* P. O. Box 1558.

Savannah, Ga.—SHUEY & CO.,\* 115 E. Bay St.

Waterloo, Iowa—IOWA TESTING LABORATORIES, 211 Vaughn St. Analyses of soybeans, soybean oil meal, soybean oil.

New Orleans 12, La.—EDWARD G. WILLIAMS LABORATORIES,\* 933 Poydras St.

Kansas City 6, Mo.—SOUTHWESTERN LABORATORIES, 1504 Board of Trade Bldg.

St. Joseph, Mo.—ST. JOSEPH TESTING LABORATORIES, INC., P. O. Box 910. Complete laboratory services.

South Kearney, N. J.—LOUIS STERN SONS, INC., 4th St. and Hackensack Ave. Official sampler and weigher.

Mt. Vernon, N. Y.—SCHWARZ LABORATORIES, INC., 230 Washington St.

New York 4, N. Y.—M. F. LAURO, chief chemist, New York Produce Exch., 2 Broadway.

Oklahoma City, Okla.—SOUTHWELL LABORATORY,\* P. O. Box 1006.

Columbia, S. C.—HAHN LABORATORIES,\* 1111 Flora St., P. O. Box 1163.

Memphis 1, Tenn.—BARROW-AGEE LABORATORIES, INC.,\* 123 S. Front St.

Memphis, Tenn.—WOODSON-TENENT LABORATORIES,\* Also offices at Little Rock and Rlytheville, Ark.; Cairo and Chicago, Ill.; Des Moines, Iowa; Clarksdale, Miss.

Austin, Tex.—ACOCK LABORATORIES,\* P. O. Box 1148.

Corpus Christi, Tex.—CAMPBELL LABORATORIES, 1919 N. Chaparral St., P. O. Box 1913. Control and official analyses for the soybean industry.

Dallas 1, Tex.—POPE TESTING LABORATORIES,\* P. O. Box 903.

Dallas, Tex.—SOUTHWESTERN LABORATORIES,\* 1212 Oak Lawn, P. O. Box 1618. Also at Houston and Ft. Worth. Consulting analytical chemist.

Dallas, Tex.—TEXAS TESTING LABORATORIES, INC.,\* 1416 Young St. Also at Lubbock, Tex. Analysis of soybean products.

Fort Worth, Tex.—COMMERCIAL TESTING LABORATORIES, 1520 E. Lancaster, P. O. Box 1906. Commercial analytical and consulting chemist.

Fort Worth 1, Tex.—FT. WORTH LABORATORIES,\* P. O. Box 1379. Official chemist for soybeans and soybean products.

## L. B. LOVITT & CO.

Cotton Exchange Bldg.

Memphis, Tenn.

Established 1913

**FUTURES**

SOYBEANS

SOYBEAN MEAL

COTTONSEED MEAL

**CASH**

COTTONSEED MEAL

SOYBEAN MEAL

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## ANALYSTS—(Continued)

**Fort Worth, Tex.**—INDUSTRIAL LABORATORIES,\* 2002 W. 11th St., P. O. Box 185. Analyses on cake and meal. Official sampling on shipments.

**Harlingen, Tex.**—PATTISON'S SOUTHWEST LABORATORIES,\* 211 E. Monroe St., P. O. Box 346. Analytical chemistry.

**Houston, Tex.**—HOUSTON LABORATORIES,\* 311 Cheuvret St., P. O. Box 132.

## APPRAISALS

**Minneapolis, Minn.**—APPRAISAL SERVICE CO.

**Minneapolis 16, Minn.**—PATCHIN APPRAISALS, 4005 Vernon Ave. S. Specialized appraisal service for the soybean and grain processing industries.

**St. Louis 8, Mo.**—DOANE AGRICULTURAL SERVICE, INC., Box S, 5142 Delmar Blvd.

**Morristown, N. J.**—ALAN PORTER LEE ASSOCIATES, 19 South St.

## BROKERS, COMMISSION MERCHANTS, JOBBERS

**Little Rock, Ark.**—SAM A. SANDERS, 724 Boyle Bldg. Brokerage soybean products.

**Los Angeles 1, Calif.**—D. & D. BROKERAGE CO., 819 E. 62nd St. Represents A. E. Staley Mfg. Co., Decatur, Ill. Broker of soybean and other salad oils. Storage and handling facilities. Represents Opelousas Oil Refinery, Opelousas, La. Cottonseed and peanut oils.

**Los Angeles 23, Calif.**—SNOW & CO., 3039 E. 12th St. Brokerage, feeds, grains and concentrates, fats and oils.

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**San Francisco, Calif.**—FRED DE HOFF CO., Merchants Exch. Bldg. Broker of soybean oil meal, proteins and concentrates.

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Fort Wayne, Ind.—BURHOP & CO., Gettle Bldg., 803 S. Calhoun St.

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Mankato, Minn.—FEED SERVICE CO., 502 S. Front St. Soybean oil meal broker.

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**New York 6, N. Y.**—W. C. HOLZHAUER, 117 Liberty St. Crude and refined soybean oil.

**New York 5, N. Y.**—MERRILL LYNCH, PIERCE, FENNER & BEANE, 70 Pine St. Commodity futures broker all markets; also cash broker in soybean oil and meal, cottonseed oil and meal.

**New York 4, N. Y.**—GEORGE SIROTA COMMODITY CORP., 2 Broadway. Soybean and cottonseed oils.

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**Chicago, Ill.**—**ILLINOIS GRAIN CORP.**, Board of Trade Bldg.

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**Hudson, Iowa**—**AGRICULTURAL EXPORTS, INC.**

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**Philadelphia 6, Pa.**—AGRICOL CORP. INC., 234-236 the Bourse. Purchase and sale of soybeans for domestic and export.

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**New York, N. Y.**—NEW YORK PRODUCE EXCHANGE. Soybean oil and cottonseed oil futures. Exec. Secy., C. R. Berg.

**Memphis, Tenn.**—MEMPHIS MERCHANTS EXCHANGE. Cottonseed and soybean oil meal futures. Exec. Vice Pres., A. A. Williams.

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**Hudson, Iowa**—AMERICAN SOYBEAN ASSN. Late News—Association newsletter, published 32 times yearly, including 12 times in the Soybean Digest. Latest crop and market information on soybeans and soybean products.

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**Chicago 1, Ill.**—MACDONALD ENGINEERING CO., 189 W. Randolph St. Design and construction of soybean storage elevators and processing plants.

**Chicago, Ill.**—JAMES STEWART CORP., 228 N. La Salle St. Designer and builder of feed mills, elevators and extraction plants.

**Chicago 15, Ill.**—WURSTER & SANGER INC., 1337 E. 52nd St. Complete plants.

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**Kansas City, Mo.**—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Roll corrugating.

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**Omaha, Nebr.**—PURITAN MFG. CO., 1931 N. 11th St. Roll grinding and corrugating; gears of all types; general machine work.

**Cincinnati 23, Ohio**—ORVILLE SIMPSON CO., 1230 Knowlton St. "Tra-Cut" roll grinding and corrugating.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Roll grinding and corrugating.

## MISCELLANEOUS SERVICES

**Chicago 2, Ill.**—B. J. MANY CO., INC., 30 N. La Salle St. Repair of exterior concrete masonry by means of reinforced gunite.

**Chicago 39, Ill.**—METAL HARD SURFACING CO., 1815 N. Long Ave. Hard surface screw pressing equipment, shafts, hammers, pump shafts, pump sleeves, valves, knives and other machine parts.

**Minneapolis, Minn.**—CUTHBERT CO., INC., 302 4th Ave. S. Direct factory fieldmen for repair and adjustment of all laboratory equipment.

**Minneapolis, Minn.**—EAGLE IRON WORKS CO., 829 S. 5th St. Machinery repairing of all kinds.

**North Kansas City 16, Mo.**—NATIONAL PAINTING CORP., 2012 Burlington. Repair and renovating of concrete, tile and metal grain storage tanks, work houses and mill buildings, interior and exterior. Grain chutes installed, turned, and treated for rust.

**New York, N. Y.**—REFINING UNINCORPORATED, 70 West 40th St. Process research and development.

**Columbus 8, Ohio**—EXACT WEIGHT SCALE CO., 945 W. 5th Ave. Also 2920 Bloom St. W., Toronto 18, Ontario, Canada. Weight surveys.

## TRANSPORTATION

**Iowa City, Iowa**—ELDON MILLER, INC. Branches at Coralville, Cedar Rapids, Des Moines, Dubuque, Fort Madison, Iowa; Chicago, Peoria, Peru, Ill.; Kansas City, Mo.; LaCrosse, Wis.; Memphis, Tenn. Common carrier by highway, inter-state and intra-state, for vegetable oils.

**Cincinnati 32, Ohio**—STILLPASS TRANSIT CO., INC., 4967 Spring Grove Ave. Soybean oil hauling specialist.

## WAREHOUSING SERVICE

**San Francisco 11, Calif.**—LAWRENCE WAREHOUSE CO., 37 Drumm St. Offices in all principal cities. Field warehousing, facilitates loans against inventory.

**Chicago, Ill.**—AMERICAN EXPRESS FIELD WAREHOUSING CORP., 18 S. Michigan Ave. Affiliate of American Express Co.

**Chicago 4, Ill.**—WILLIAM H. BANKS WAREHOUSES, INC., 209 S. La Salle St. Div. offices in Des Moines, Iowa; St. Louis, Mo.; San Antonio, Tex.; Angola, Ind.

**Minneapolis, Minn.**—AMERICAN EXPRESS FIELD WAREHOUSING CORP., 910 Baker Bldg. Affiliate of American Express Co.

**St. Paul, Minn.**—ST. PAUL TERMINAL WAREHOUSE CO. Also offices in Des Moines, Chicago, Milwaukee, Kansas City, Minneapolis, Omaha, Buffalo, Jacksonville, Los Angeles, New Orleans, San Francisco, Tampa, Detroit, New York, Boston, Philadelphia, Pittsburg, Atlanta, Memphis, Charlotte, Albany, Ga., and Dallas.

**St. Louis 2, Mo.**—ST. LOUIS TERMINAL WAREHOUSE CO. Also offices in Atlanta, Chicago, Cincinnati, Dallas, Houston, Kansas City, Lubbock, Memphis, Philadelphia, New York City, Tampa, Wichita, Jackson. Field warehousing service. Also field warehousing loans.

**Memphis 3, Tenn.**—N. Y. TERMINAL WAREHOUSE CO., INC., 3945 N. 3rd St. Affiliate of St. Paul Terminal Warehouse Co., St. Paul, Minn. Field warehousing.

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# EQUIPMENT AND SUPPLIES FOR THE SOYBEAN INDUSTRY

## BAG EQUIPMENT

**Chicago 50, Ill.**—R. F. GUMP CO., 1309 S. Cicero Ave. Bag packers.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Converse Bldg. Bag cleaners, closers, stackers.

**Chicago 10, Ill.**—UNION SPECIAL MACHINE CO., 400 N. Franklin St. Bag Closers.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1367 Sherman Ave. Bag tags, cleaners, closers.

**Huntington, Ind.**—HUNTINGTON LABORATORIES, INC. Bag cleaners.

**Minneapolis 13, Minn.**—DAY CO., 810 3rd Ave. N.E. Pneumatic bag cleaners.

**Minneapolis 3, Minn.**—DAVE FISCHBEIN CO., 38 Glenwood Ave. Bag closers.

**Minneapolis, Minn.**—MINNEAPOLIS SEWING MACHINE CO.

**Clifton, N. J.**—RICHARDSON SCALE CO., 608 Van Houten Ave. Bag packers.

**New York, N. Y.**—WILLCOX & GIBBS SEWING MACHINE CO., 214 W. 39th St. Plant at Nyack, N. Y. Filled bag closing machines.

**Silver Creek, N. Y.**—S. HOWES CO., INC. Bag packers.

**Tuckahoe, N. Y.**—STOFFEL SEALS CORP., 145 Main St. Manufacturer of metal seals and seal tags.

**Springfield, Ohio**—DUPLEX MILL & MFG. CO. Bag cleaners.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Sack cleaners.

## BAG MANUFACTURERS

**Atlanta, Ga.**—FULTON BAG & COTTON MILLS. Offices in St. Louis, Dallas, Minneapolis, Denver, New Orleans, Kansas City, Kans., New York, Los Angeles, Savannah. Cotton bags, burlap bags, paper bags, water-proof paper-lined textile bags, used bags, "Eagle Sail" cotton twine, "Eagle" machine thread.

**Chicago 6, Ill.**—CHASE BAG CO., 309 W. Jackson Blvd. Paper, burlap and cotton bags.

**Chicago 8, Ill.**—RITTER BAG CO., 1447 Blue Island Ave. Complete line of new and second-hand burlap and cotton bags for the soybean industry.

**Chicago 9, Ill.**—WESTERN BURLAP BAG CO., 1101 W. 38th St. Manufacturer of new and "NuSeme" cotton and burlap bags. Specialists in serving the soybean industry.

**Indianapolis, Ind.**—MAX KATZ BAG CO., 316 S. New Jersey St. Burlap, cotton, paper bags, new, plain, or printed for soybeans and soybean oil meal. Used burlap or cotton bags.

**Des Moines, Iowa**—MIDWEST BURLAP & BAG CO., 213 3rd St. Also offices in Westville, Ill., Minneapolis, Minn.; Kansas City, Mo. Manufacturer of new burlap and cotton bags; processor and converter of used burlap and cotton bags.

**Baltimore 24, Md.**—PREMIUM BAG CO., 2351 Boston St. Burlap and cotton bags.

**Baltimore, Md.**—ROYAL RIVER MILLS, INC., 33 S. Charles St. Mill at Yarmouth, Maine. 16-oz. cotton seamless bags for shipping all field seeds.

**Minneapolis, Minn.**—AMERICAN BAG CO., 112 3rd Ave. N. Also operates Nebraska Bag Co., Omaha. Cotton and burlap bags; bag printing.

**Minneapolis 14, Minn.**—SAM MILLER BAG CO., 861 871 E. Hennepin. Manufactures new burlap and cotton bags; reconditions used burlap and cotton bags for soybean oil meal.

**St. Paul 4, Minn.**—BEEDLEWHITON CO., 470 Cleveland Ave. N. Manufactures burlap, cotton and paper bags for soybeans and soybean oil meal; reconditions used cotton and burlap bags.

**Kansas City 1, Mo.**—CENTRAL BAG CO., 1323 31 W. 17th St. New and secondhand bags.

**Kansas City, Mo.**—JAITE CO. Multiwall paper bags.

**Kansas City, Mo.**—PERCY KENT BAG CO. Offices in Buffalo, New York, Minneapolis, Oklahoma City. Cotton, burlap and paper bags.

**St. Louis 2, Mo.**—BEMIS BRO. BAG CO., 408 Pine St., Box 68. Offices in principal cities. Cotton, burlap, waterproof paper-lined textile and multiwall paper shipping sacks; cellophane bags.

**St. Louis 6, Mo.**—MISSOURI BAG CO., 1206-1214 N. 1st St. New burlap and cotton bags. Processor and handler of used bags.

**St. Louis 2, Mo.**—NATIONAL BAG CO., 914-18 N. 1st St. Burlap and cotton bags.

**St. Louis 6, Mo.**—REPUBLIC BAG CO., 1590 Blair Ave. Burlap and cotton bag processor.

**St. Louis 3, Mo.**—UNITED BAGS, INC., 1510 Clark Ave., P. O. Box 297. New and used cotton, burlap and paper bags for soybeans, soybean oil meal and other products.

**Omaha 8, Nebr.**—NEBRASKA BAG CO., 715-17 S. 9th St. Affiliate of American Bag Co., Minneapolis, Minn. New and used burlap, cotton and paper bags. All types bag supplies.

**Brooklyn, N. Y.**—BURROUGHS BAG CO., INC., 135 Plymouth St. Burlap and cotton bags, bagging and burlap.

**Canajoharie, N. Y.**—ARKELL & SMITHS. Other plants at Mobile, Ala., and Wellsburg, W. Va. Offices in New York, Kansas City, Columbus, Mobile and Chicago. Supplier of multiwall paper shipping sacks for soybeans and soybean oil meal.

**Long Island City 1, N. Y.**—EQUITABLE PAPER BAG CO., INC., 45-50 Van Dam St. Also operates Orange Pulp & Paper Mills, Orange, Tex. Manufacturer of multiwall bags for soybean flour and soya products.

**New York 22, N. Y.**—HUDSON PULP & PAPER CORP., 505 Park Ave. Also plants at Palatka, Fla.; Bellows Falls, Vt.; Augusta, Maine. Manufacturer of multiwall shipping sacks and Kraft paper.

**New York 17, N. Y.**—INTERNATIONAL PAPER CO., bagpak div., 230 E. 42nd St. Plants at Camden, Ark., and Bastrop, La. Multiwall paper bags.

**New York 20, N. Y.**—KRAFT BAG CORP., 630 5th Ave. Also at Daily News Bldg., Chicago 6; St. Marys, Ga.; Gilman, Vt. Subsidiary of Gilman Paper Co. Heavy-duty multiwall shipping sacks of various types and sizes.

**New York 17, N. Y.**—ST. REGIS SALES CORP., 230 Park Ave. Offices in principal cities.

**New York 7, N. Y.**—UNION BAG & PAPER CORP., 233 Broadway. Manufactures multiwall paper bags for packaging soybean oil meal and other feeds.

**Middletown, Ohio**—RAYMOND BAG CO., Tytus Ave. and Enoch Dr. Multiwall paper shipping sacks.

## BAG MANUFACTURERS—

(Continued)

**Philadelphia, Pa.**—BELMONT BURLAP BAG CO., 2719 N. Edgemont St. Burlap and cotton bags for packing soybeans.

**Memphis 12, Tenn.**—CROWN BAG CO., 2686 Harvard St. Cotton and burlap bags.

**Memphis 2, Tenn.**—LANGSTON BAG CO., 136 E. Webster St. Manufacturer of new and used cotton and burlap bags.

**Nashville 1, Tenn.**—WERTHAN BAG CORP., 1400 8th Ave. N. Also plant at 303 Thalia St., New Orleans, La. New and used burlap and cotton textile bags for sacking soybeans and soybean oil meal.

**Houston 1, Tex.**—LONE STAR BAG & BAGGING CO., P. O. Box 276. New and secondhand burlap and cotton bags. Multiwall paper and mesh bags.

**Richmond 17, Va.**—ALBEMARLE PAPER MFG. CO. Also plant at Roanoke Rapids, N. C. Multiwall paper bag manufacturer.

**Richmond, Va.**—VIRGINIA-CAROLINA CHEMICAL CORP., 401 E. Main St. "V-C" burlap, cotton and paper bags.

**Wellsburg, W. Va.**—HAMMOND BAG & PAPER CO. Also plant at Pine Bluff, Ark. All types multiwall paper bags for soybean oil meal and dry derivatives.

**Milwaukee 4, Wis.**—ASSOCIATED BAG CO., 605 S. 1st St. Burlap and cotton bags.

**Milwaukee 2, Wis.**—FREDMAN BAG CO., 330 E. Clybourn St. Cotton and burlap bags.

## BAG REPAIRING

**Chicago 9, Ill.**—VALA CO., 700 W. Root St. "Tolu Gleeze" fabric cement.

**Indianapolis, Ind.**—MAX KATZ BAG CO., 316 S. New Jersey St. Sewing machine thread; cotton and jute twine.

**St. Louis 2, Mo.**—NATIONAL BAG CO., 914-18 N. 1st St. Twine.

**New York 6, N. Y.**—WIRTH PRODUCTS, INC., 114 Liberty St. "Copydex" sack-mending adhesive for stitchless sack repair and for reinforcing seams of bales.

**Houston 1, Tex.**—LONE STAR BAG & BAGGING CO., P. O. Box 276.

## BELTING

**Denver 17, Colo.**—GATES RUBBER CO., 999 S. Broadway. V-belts.

**Chicago 44, Ill.**—FLEXIBLE STEEL LACING CO., 4607 Lexington St. Belt lacings, belt fasteners and belt cutters.

**Chicago 23, Ill.**—IMPERIAL BELTING CO., 1750-1800 S. Kilbourn Ave. Manufactures canvas stretched conveyor and elevator belting.

**Chicago 1, Ill.**—LINK BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Dallas, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Conveyor belting.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 116-7 Sherman Ave.

**Peoria, Ill.**—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Transmission, elevating and conveyor belting, V-belts and sheaves.

**Mishawaka, Ind.**—DODGE MFG. CORP. V-belts, drives and sheaves.

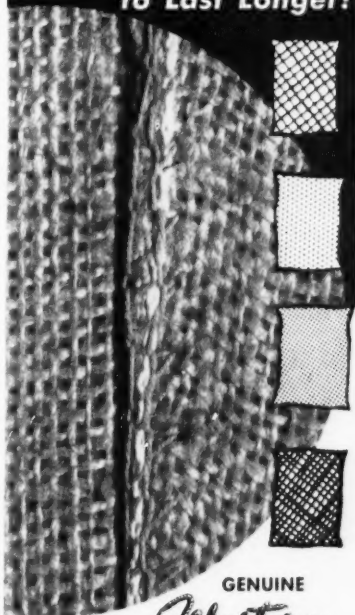
**Cedar Rapids, Iowa**—DIVINE ENGINEERING INC., 315 7th Ave. S.E.

**Cedar Rapids, Iowa**—J. C. KINTZ CO., 1737 B Ave. N.E.

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## BELTING—(Continued)

**Worcester, Mass.**—GRATON & KNIGHT CO., 348 Franklin St. Also Chicago, Dallas, Detroit, Kansas City, St. Louis, New York, Philadelphia, San Francisco. Transmission leather belting, belting cements, belt dressings, belt lacing.

**Minneapolis, Minn.**—R. R. HOWELL CO. Bucket belts.

**Kansas City, Mo.**—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Belting, V-belt and chain-belt drives.

**Omaha, Nebr.**—PURITAN MFG CO., 1931 N. 11th St. Leather, rubber and cotton belting.

**York, Nebr.**—YORK FOUNDRY & ENGINE WORKS, 912-928 Grant Ave. Cup and conveyor belting.

**Buffalo 7, N. Y.**—BUFFALO WEAVING & BELTING CO., 260 Chandler St. Conveyor belting.

**Buffalo 6, N. Y.**—GLOBE WOVEN BELTING CO., INC., 1400 Clinton St. Conveyor, elevator and power transmission belting; solid woven white cotton and stitched canvas treated for special use in the soybean industry. Also white neoprene rubber-covered and brown neoprene friction surface belting.

**New York 7, N. Y.**—CARLYLE RUBBER CO., INC., 64 Park Place. Conveyor, elevator and power transmission belting.

**New York 7, N. Y.**—VICTOR BALATA & TEXTILE BELTING CO., 53 Park Place. Also 300 W. Hubbard St., Chicago 10. Plant at Easton, Pa. Solid-woven, canvas-stitched, neoprene-treated and balata types of conveyor, elevator and transmission belting.

**Youngstown 1, Ohio**—REPUBLIC RUBBER DIV., Lee Tire & Rubber Co., Albert St. "Resprene" transmission, conveyor and elevator belting.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 427 S. Main St.

## CHAINS

**Fresno, Calif.**—VALLEY FOUNDRY & MACHINE WORKS, INC., 2718 East Ave.

**Chicago 1, Ill.**—LINK-BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto.

**Peoria, Ill.**—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Roller chain and sprockets.

**Cedar Rapids, Iowa**—DIVINE ENGINEERING, INC., 315 7th Ave. S.E.

**Omaha 2, Nebr.**—PURITAN MFG CO., 1931 N. 11th St. Roller chain with sprockets.

**York, Nebr.**—YORK FOUNDRY & ENGINE WORKS, 912-928 Grant Ave. Roller chains and sprockets.

**Columbus 16, Ohio**—JEFFREY MFG CO., 799 N. 4th St. All types and sizes of chains.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 427 S. Main St.

## CHEMICAL PLANT APPARATUS

**Oreland, Pa.**—ACME COPPERSMITHING & MACHINE CO. Chemical plant apparatus.

## CHEMICALS

**Ringwood, Ill.**—RINGWOOD CHEMICAL CORP. Manufactures and sells bulk fine organic chemicals.

**Richmond, Va.**—VIRGINIA-CAROLINA CHEMICAL CORP., 401 E. Main St.

**Marinette, Wis.**—ANSUL CHEMICAL CO. Liquid sulfur dioxide. Dry chemical fire extinguishers.

## CONVEYORS, ELEVATORS

**Birmingham, Ala.**—CONTINENTAL GIN CO., industrial div. Offices at Atlanta, Dallas, Memphis, Knoxville and New York City. Belt, screw, chain-flight conveyors; bucket screw elevators.

**Birmingham, Ala.**—SOUTHEASTERN PRODUCE CORP., 1401-03 Lomb Ave., P. O. Box 2310. Portable seed conveyors. "Sepco" seed loader. "Sepco" mechanical packings. Cut gaskets of all types.

**Paragould, Ark.**—WONDER STATE MFG CO. Subsidiary of Bertig Co. Supplier of elevating and conveying equipment.

**Belmont, Calif.**—VACU-BLAST CO., INC., P. O. Box 885-SB. Pneumatic conveying equipment.

**Fresno, Calif.**—VALLEY FOUNDRY & MACHINE WORKS, INC., 2718 East Ave.

**San Francisco 7, Calif.**—SHANZER MFG CO., 85 Bluxome St. Screw conveyors. "Max-I-Pacity" hi-speed bucket elevators.

**Macon, Ga.**—EDWARDS PRODUCTS CO., 206 Persons Bldg. Portable conveying equipment for handling soybeans.

**Aurora, Ill.**—STEPHENS-ADAMSON MFG CO. Also offices in Los Angeles, St. Louis, New York and Chicago. Plants at Aurora, Los Angeles and Belleville, Ont. Conveyors and elevators.

**Chicago 50, Ill.**—B. F. GUMP CO., 1309 S. Cicero Ave.

**Chicago 51, Ill.**—HAMMERMILLS, INC., 4700 W. Division St. Subsidiary of Pettibone Mulliken Corp. Conveyors, feeders.

**Chicago 1, Ill.**—LINK-BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Conveyors and elevators of all types.

**Chicago 35, Ill.**—MATERIALS HANDLING EQUIPMENT CO., 2619 N. Normandy Ave. Marine elevator legs, screw conveyors, bucket elevators, en masse type "Uni-Flow" elevator conveyors, special feeders and special processing machinery.

**Chicago 50, Ill.**—PRATER PULVERIZER CO., 1517-49 S. Court. Conveyors and elevators.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 294 Converse Bldg.

**Chicago 4, Ill.**—B. I. WELLER CO., 327 S. La Salle. Screw conveyor and trough.

**Decatur, Ill.**—HUSS & SCHLIEPER, 714 N. Church St., P. O. Box 862. Chain and belt bucket elevators—vertical-type; belt and screw conveyors.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Jerseyville, Ill.**—BAUGHMAN MFG CO., INC., 1 Shipman Rd. Portable and stationary belt and screw conveyors. Belt and bucket elevators. Self-unloading and elevating material bodies.

**Peoria, Ill.**—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Screw conveyor and accessories.

**Streator, Ill.**—MYERS SHERMAN CO., 1643 S. Illinois St. Pneumatic portable and stationary conveying equipment.

**Columbia City, Ind.**—LML ENGINEERING & MFG. CORP., 607-617 S. Chaucey St.



## CONVEYORS, ELEVATORS—

(Continued)

**Connersville, Ind.**—ROOTS CONNERSVILLE BLOWER, div. of Dresser Industries, Inc., 900 W. Mount St. Rotary positive blowers for pneumatic conveying of soybeans.

**Hammond, Ind.**—SCREW CONVEYOR CORP., 757 Hoffman St. Hammond "Screw Lifts" (vertical screw elevator); Hammond "Screw-Veyor" (horizontal or inclined screw conveyor); helicoid and sectional flight conveyor screws; screw-conveyor troughing and accessories; "Tite-Seal" screw conveyor cover and clamps.

**Cedar Rapids, Iowa**—DIVINE ENGINEERING, INC., 315 7th Ave. S.E. Conveying and elevating equipment and supplies; "Divinators"—en masse type of unit widely used in the soybean industry.

**Cedar Rapids, Iowa**—J. C. KINTZ CO., 1737 B Ave. N.E.

**Des Moines 9, Iowa**—CORN STATES HYBRID SERVICE, 1101 Walnut St.

**Marion, Iowa**—RAPIDS MACHINERY CO., 889 11th St. "Marion" all-steel elevators.

**Dodge City, Kans.**—MAYRATH, INC., E. Trail St. Auger loaders, grain and hay elevators.

**Enterprise, Kans.**—J. B. EHRSAM & SONS MFG. CO. Elevator boots, head drives, pulleys, buckets, spouting, bins, gates, hoppers and valves, conveyor idlers, trippers, rail car pullers and power shovels.

**Leavenworth, Kans.**—GREAT WESTERN MFG. CO. Elevators—sheet steel. Conveyors—steel spiral.

**Wichita 4, Kans.**—VICKERS CONVEYOR & STEEL WORKS, INC., 192 N. Mosley. "Vickers Telescopic" car-truck loading portable conveyor; elevator legs; conveying equipment.

**New Orleans, La.**—NATIONAL BLOW PIPE & MFG. CO. LTD., Claiborne, Poland, Derbigny and Kentucky Sts. Pneumatic conveying equipment.

**Detroit 15, Mich.**—BIN-DICATOR CO., 13946 Kercheval Ave. "Bin-Flo"—aerator unit for inducing gravity flow of fine dry materials.

**Grand Rapids 2, Mich.**—RAPIDS STANDARD CO., INC., Rapistan Bldg. Plants at 130 Trowbridge N.W.; and Plymouth Road N.E. "Rapistan" power and gravity conveyors, boxcar loaders.

**Saginaw, Mich.**—A. T. FERRELL & CO. Heavy-duty, all steel bucket-type elevating legs.

**Minneapolis 13, Minn.**—DAY CO., 810 3rd Ave. N. E. Pneumatic conveying and cooling systems.

**Minneapolis, Minn.**—GERBER SHEET METAL INC., 518 S. 3rd St. Soybean distributors; steel elevator legs.

**Minneapolis, Minn.**—R. R. HOWELL CO. Screw and belt conveyors.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 409 N. 1st St. Also at Des Moines, Omaha, Sioux Falls and Fargo. Wholesale distributor. Augers, elevators, blowers.

**Minneapolis, Minn.**—STRONG SCOTT MFG. CO., Taft and Kennedy St. N.E. Elevators, conveyors, power shovels.

**North St. Paul 9, Minn.**—STANDARD CONVEYOR CO., 315 N.W. 2nd St. Also plant at 840 Harrison St., San Francisco. Portable belt conveyors—"Handibelt" and "Handipler" machines.

**Thief River Falls, Minn.**—FRED FORSBERG & SONS, INC.

**Kansas City, Mo.**—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Conveyors.

**Kansas City, Mo.**—MIDWEST STEEL PRODUCTS CO., Railway Exch. Bldg. Elevating equipment.

**Kansas City, Mo.**—HARRY E. SURFACE CO., 427 Board of Trade. Complete equipment, engineers and machinery erectors.

**St. Louis 4, Mo.**—ESSMUELLER CO. Also Kansas City 1.

**Omaha 2, Nebr.**—PURITAN MFG. CO., 1931 N. 11th St. Spiral steel conveyors complete with boxes, and steel elevator legs complete with belting and cups.

**York, Nebr.**—YORK FOUNDRY & ENGINE WORKS, 912-928 Grant Ave. Belt type conveyors complete with drives; screw conveyors.

**Fort Lee, N. J.**—BUHLER BROS., INC., State Highway No. 4. Complete conveying systems.

**Hoboken, N. J.**—CONSOLIDATED PRODUCTS CO., INC., 5254 Bloomfield St. Used bucket elevators, screw conveyors, belt and troughing conveyors.

**Summit, N. J.**—PULVERIZING MACHINERY CO., River and Chatham Roads. Manufacturer of "Mikro-Air" conveying system for pneumatic handling of products.

**Utica 1, N. Y.**—MUNSON MILL MACHINERY CO., INC., 210 Seward Ave. Subsidiary of Divine Bros. Co. Elevators.

**Raleigh, N. C.**—AEROGLIDE CORP., 510 Glenwood Ave., P. O. Box 1839. Bucket elevators, belt and screw conveyors.

**Archbold, Ohio**—KING WYSE, INC. Manufacturer of farm elevators, rubber belt conveyors.

**Avon, Ohio**—BOSWORTH MFG CO., Mills Rd. Belt type portable and stationary loading and conveying equipment.

**Columbus 7, Ohio**—BONDED SCALE & MACHINE CO., 95 Kingston Ave. Portable and stationary conveyors for bulk moving of all materials. Troughing and flat belt types; bucket elevators, scraper conveyors, flight conveyors, floor-to-floor conveyors; portable power stackers and pilers; conveyor parts and parts to build conveyors.

**Columbus 16, Ohio**—JEFFREY MFG. CO., 799 N. 4th St. Conveyors and bucket elevators.

**Orient, Ohio**—BELT CORP., 5314 Mill St. "Harvest Handler" elevators, models B and C. "Versaveyor" bag and box conveyor, model R.

**Sidney, Ohio**—SHELBY MFG. CO., 219 E. Court St. Adjustable and vertical screw lifts; chain drags, horizontal screws.

**Sidney, Ohio**—SIDNEY GRAIN MACHINERY CO., 424 N. Main St. Conveying equipment and elevators.

**Springfield, Ohio**—DUPLEX MILL & MFG. CO.

**Tiffin, Ohio**—WEBSTER MFG., INC. Designer and manufacturer of stationary elevating and conveying equipment.

**Westerville, Ohio**—J. W. HANCE MFG. CO. Elevating and conveying equipment.

**Youngstown 1, Ohio**—REPUBLIC RUBBER DIV., Lee Tire & Rubber Co., Albert St. Car-unloading and soybean oil meal-conducting hose.

**Oklahoma City, Okla.**—BOARDMAN CO., 1401 S.W. 11th St.

**Oklahoma City, Okla.**—SOUTHWESTERN SUPPLY & MACHINE WORKS, 6 S.E. 4th St. "Rotor Lift" designed to elevate free flowing bulk material; bucket elevators; screw conveyors and accessories.

**Bangor, Pa.**—GODSHALK SHEET METAL FABRICATORS, N. Main St. Belt and bucket elevators, screw and drag belt conveyors, hoppers.



## CONVEYORS, ELEVATORS— (Continued)

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Screw conveyors; bucket elevators; "Pneu-Vac" bulk materials handling system.

**York, Pa.**—OLIVER CORP., A. B. Farquhar div., 142 N. Duke St. All types of conveyors for handling bulk or packaged materials.

**Memphis, Tenn.**—DABNEY-ALCOTT SUPPLY CO., INC., P. O. Box 2392. Sale of bucket elevators and conveying systems.

**Memphis, Tenn.**—J. E. DILWORTH CO., 730 S. 3rd, P. O. Box 2834. Also in Jackson, Miss., and Tuscaloosa, Ala. Industrial supply distributor of conveying equipment.

**Memphis 2, Tenn.**—HAYS SUPPLY CO., 269-287 S. Front St. Conveying and elevating equipment.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

**Memphis 3, Tenn.**—W. C. PITTS & SON, INC., 154 N. Front St. Conveying and elevating equipment.

**Memphis, Tenn.**—RIECHMAN CROSBY CO., 223-229 S. Front St. Elevating and conveying equipment.

**Memphis, Tenn.**—SOUTHLAND ENGINEERING & SUPPLY CO., 208-B S. Cleveland. Plant at 92 W. Carolina. Designs, fabricates and sells conveying and elevating systems.

**Burleson, Tex.**—THOMAS CONVEYOR CO. INC., P. O. Box 6. Screw conveyors and elevators, bucket elevators, belt and drag conveyors.

**Fort Worth, Tex.**—FORT WORTH STEEL & MACHINERY CO., 3600 McCart St. Offices in Chicago, St. Louis, Kansas City. Screw conveyor.

**Fort Worth, Tex.**—INDUSTRIAL MACHINERY CO., INC., 2400 S. Main. Screw conveyors, elevators, belt conveyors.

**Fort Worth, Tex.**—WICHITA INDUSTRIAL MFG. CO., P. O. Box 307, 3431 W. Vickery Blvd.

**Houston, Tex.**—HOUSTON BELTING & SUPPLY CO., 1717 Walker St.

**Milwaukee 16, Wis.**—BLOWER APPLICATION CO., 3165 N. 30th St. Pneumatic conveying systems; rotary feeder valves.

## DEFOLIANTS

**St. Louis, Mo.**—CYPRESS SUPPLY CO., 219 Chouteau. Distributor.

**Middleport, N. Y.**—NIAGARA CHEMICAL DIV., Food Machinery & Chemical Corp. Also plants in Harlingen, Tex.; Wyoming, Ill.; Richmond, Calif.; Jacksonville, Fla.

**New York 20, N. Y.**—AMERICAN CYANAMID CO., agricultural chemicals div., 30 Rockefeller Plaza.

## DRYING EQUIPMENT

**San Francisco 7, Calif.**—SHANZER MFG. CO., 85 Bluxome St. Shanzer "Berico" and Shanzer "Economy" columnar grain and soybean driers; Shanzer "Thrifty" all-purpose portable farm driers.

**Chicago 1, Ill.**—LINK BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa.; Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Roto-Louvre, Multi-Louvre, etc.

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The above plants are all equipped with Randolph Direct Heat Furnaces — operating with Gas or Oil burners.

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Electric Temperature Control System.

**O. W. RANDOLPH COMPANY**  
TOLEDO, OHIO — U.S.A.

## DRYING EQUIPMENT—

(Continued)

**Cicero 50, Ill.**—HESS CO., 1855 S. 54th Ave. Manufacturing of drying equipment to reduce the moisture content of soybeans.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316 7 Sherman Ave.

**Davenport, Iowa**—DAVENPORT MACHINE & FOUNDRY CO., 1628 W. 4th St. "Rotary" soybean dryers, conditioners, coolers.

**Des Moines 9, Iowa**—CORN STATES HYBRID SERVICE, 1101 Walnut St. "Campbell" grain dryer.

**Lexington, Ky.**—PEIRSON MOORE CO., INC., N. Beltline at L&N RR. All-purpose farm driers.

**Minneapolis 16, Minn.**—ARID-AIRE MFG. CO., 3981 Zenith Ave.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls and Fargo. Wholesale distributor.

**Columbus, Nebr.**—HABCO MFG. CO., Industrial site. Plant also at Platte Center. Portable batch-type and continuous stationary low heat, high air volume grain drying equipment.

**Hoboken, N. J.**—CONSOLIDATED PRODUCTS CO., INC., 52-54 Bloomfield St. Used rotary steam dryers.

**Raleigh, N. C.**—AEROGLIDE CORP., 510 Glenwood Ave., P. O. Box 1839. Manufacturer of grain driers.

**Cleveland 2, Ohio**—V. D. ANDERSON CO., 1990 W. 96th St. Rotary steam dryers, solvent recovery dryers.

**Sidney, Ohio**—SIDNEY GRAIN MACHINERY CO., 424 N. Main St. Dryers.

**Mansfield, Ohio**—J. R. MAYNER & CO., 703 Richland Trust Bldg. Soybean drying equipment.

**Toledo, Ohio**—O. W. RANDOLPH CO., 3917 29 Imlay St.

**Oreland, Pa.**—ACME COPPERSMITHING & MACHINE CO. Direct heat, drum, cylindrical, indirect heat, rotary, spray type, steam jacketed, tray, vacuum, "Acme" hi-speed rotary film type and multi stage dryers.

**Warren, Pa.**—STRUTHERS WELLS CORP. Vacuum dryers.

**Sioux Falls, S. Dak.**—KOLMAN MFG. CO., P. O. Box 251. Plant at W. 12th St. Rd. Portable and stationary grain dryers for normal drying and salvage drying.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

**Memphis 3, Tenn.**—W. C. FITTS & SON, INC., 153 N. Front St.

**Milwaukee, Wis.**—ALLIS CHALMERS MFG. CO., gen. machinery div. Solvent removal dryers.

**Milwaukee, Wis.**—ARNOLD DRYER CO., 3000 W. Montana. Dehydrators.

## DUST CONTROL SYSTEMS DUST COLLECTORS

**Chicago 40, Ill.**—BREUER ELECTRIC MFG. CO., 5100 N. Ravenswood Ave. Dust collectors, industrial vacuum cleaners.

**Chicago 50, Ill.**—PRATER PULVERIZER CO., 1517-49 S. 55th Court.

**Decatur, Ill.**—HUSS & SCHLIEFER, 714 N. Church St., P. O. Box 862. Dust collecting systems.

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## DUST CONTROL SYSTEMS— (Continued)

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1346-7 Sherman Ave.  
**Mishawaka, Ind.**—AMERICAN WHEEL-ABRATOR & EQUIPMENT CORP., 886 S. Byrkit St. Dust collector equipment to ventilate various processing operations. Blast cleaning equipment for maintenance and reconditioning.  
**Wichita 4, Kans.**—VICKERS CONVEYOR & STEEL WORKS, INC., 1927 N. Mosley. Manufacturer of dust control equipment.  
**New Orleans, La.**—NATIONAL BLOW PIPE & MFG. CO. LTD., Claiborne, Poland, Derbigny and Kentucky Sts.  
**Hopkins, Minn.**—SUPERIOR GRAIN SEPARATOR CO., 121 Washington Ave. S. Also plant at Pomona, Calif. Air centrifuge dust collectors.  
**Minneapolis 13, Minn.**—DAY CO., 810 3rd Ave. N.E. Dust filters.  
**Thief River Falls, Minn.**—FRED FORSBERG & SONS, INC. Bag cleaners.  
**Kansas City 8, Mo.**—W. C. WIENENMANN & SONS, INC. 1820-24 Harrison St.  
**Summit, N. J.**—PULVERIZING MACHINERY CO., River and Chatham Roads. Manufacturer of "Mikro Collector" for product recovery and industrial dust control.  
**Buffalo 25, N. Y.**—DUSTEX CORP., 1758 Walden Ave. "Microclone" and "Dustex D52" dust collectors.  
**Cleveland 13, Ohio**—FILTER FABRICS, INC., 1279 W. 3rd St. Industrial dust collecting bags built to specification.  
**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Cyclone collectors.  
**Oreland, Pa.**—ACME COPPERSMITHING & MACHINE CO.  
**Fort Worth, Tex.**—WICHITA INDUSTRIAL MFG. CO., P. O. Box 307, 3431 W. Vickery Blvd.  
**Milwaukee 16, Wis.**—BLOWER APPLICATION CO., 3165 N. 30th St. Dust collecting systems.

## ELEVATOR CUPS

**Chicago 1, Ill.**—LINK-BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. All types, including new "HS" high speed elevator buckets.  
**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.  
**Chicago 4, Ill.**—B. I. WELLER CO., 327 S. La Salle St.  
**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1346-7 Sherman Ave.  
**Moline, Ill.**—K. I. WILLIS CORP.  
**Peoria, Ill.**—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Buckets.  
**Hammond, Ind.**—SCREW CONVEYOR CORP., 757 Hoffman St. Elevator buckets ("Nu Hy," "Salem," "Nu Type") and bolts.  
**Cedar Rapids, Iowa**—DIVINE ENGINEERING, INC., 315 7th Ave. S.E. Supplier.  
**Cedar Rapids, Iowa**—J. C. KINTZ CO., 1742 B Ave. N.E.  
**Minneapolis, Minn.**—R. R. HOWELL CO. Buckets.  
**Thief River Falls, Minn.**—FRED FORSBERG & SONS, INC.  
**Kansas City, Mo.**—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Elevator buckets.

**Columbus 16, Ohio**—JEFFREY MFG. CO., 799 N. 4th St. Elevator buckets.  
**Sidney, Ohio**—SHELBY MFG. CO., 219 E. Court St.  
**Muncy, Pa.**—SPROUT, WALDRON & CO. INC.  
**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.  
**Fort Worth, Tex.**—FORT WORTH STEEL & MACHINERY CO., 3600 McCart St. Offices in Chicago, St. Louis and Kansas City.

## FANS

**Little Rock, Ark.**—HUBERT PHELPS MACHINERY CO., 1700 E. 9th St. Seed cooling fans.  
**Chicago 4, Ill.**—GARDEN CITY FAN CO., 332 S. Michigan Ave. Plant at Niles, Mich. Fans, blowers and exhausters.  
**Chicago 50, Ill.**—PRATER PULVERIZER CO., 1517-49 S. 55th Court.  
**East Moline, Ill.**—DE BOTHEZAT FANS DIV., American Machine & Metals, Inc. Certified ventilating and air moving equipment.  
**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1346-7 Sherman Ave.  
**Morton Grove, Ill.**—GENERAL BLOWER CO., 8640 Ferris Ave. Fans, blowers, exhausters.  
**Skokie, Ill.**—WM. W. MEYER & SONS INC., 8253 Elmwood Ave. Blowers, fans, exhausters and vacuum cleaners.  
**New Orleans, La.**—NATIONAL BLOW PIPE & MFG. CO. LTD., Claiborne, Poland, Derbigny and Kentucky Sts. Industrial fans.  
**Minneapolis, Minn.**—STRONG SCOTT MFG. CO., Taft and Kennedy St. N.E.  
**York, Nebr.**—YORK FOUNDRY & ENGINE WORKS, 912-928 Grant Ave. Dust collector fans.  
**Piqua, Ohio**—HARTZELL PROPELLOR FAN CO., P. O. Box 909. Fan equipment, propeller fans of all types.  
**Sidney, Ohio**—SHELBY MFG. CO., 219 E. Court St. Carloader blowers.  
**Springfield, Ohio**—ROBBINS & MYERS, INC., 1345 Lagonda Ave. Also plants at Memphis, and Brantford, Ont. Industrial fans.  
**Muncy, Pa.**—SPROUT, WALDRON & CO., INC.  
**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.  
**Memphis, Tenn.**—TIPPS ENGINEERING & SUPPLY CO., INC., P. O. Box 213, Front and Market Sts. Pneumatic soybean cooling systems.  
**Fort Worth, Tex.**—FORT WORTH STEEL & MACHINERY CO., 3600 McCart St. Exhaust fans.

## FARM EQUIPMENT

**Bloomington, Ill.**—PORTABLE ELEVATOR MFG. CO. Manufactures farm elevators.  
**Chicago 1, Ill.**—INTERNATIONAL HARVESTER CO., gen. office 180 N. Michigan Ave. "McCormick" farm equipment and "Farmall" tractors.  
**Chicago 6, Ill.**—OLIVER CORP., 400 W. Madison St. Manufactures drills and planters at Springfield, Ohio; combines at Battle Creek, Mich.; cultivators at South Bend, Ind.  
**Mendota, Ill.**—H. D. HUME CO., 812 N. Main St. Combination bat and tine pickup reels for combines and windrowers. Crop guards for fast, safe cultivation; wire winder for fencing.  
**Moline, Ill.**—JOHN DEERE. Machines and implements for preparing seedbed and for planting, cultivating, and harvesting soybeans.  
**Peoria 8, Ill.**—CATERPILLAR TRACTOR CO. Diesel track-type tractors and wheel tractors; agricultural tool bars and tools; diesel engines and diesel electric sets; tractor shovels.

## FARM EQUIPMENT—(Continued)

**Churubusco, Ind.**—AMERICAN TRACTOR CORP. Manufacturer of farm implements.

**Kempton, Ind.**—ALPRODCO INC. OF IND. Also plants at Mineral Wells, Tex.; and Dublin, Ga. Manufacturer of aluminum gates.

**Cedar Rapids, Iowa**—CENTURY ENGINEERING CORP., 401 3rd St. Manufactures seeders, spreaders.

**Hesston, Kans.**—HESSTON MFG CO., INC. Soybean harvesting attachment for self propelled combines.

**Birmingham, Mich.**—FORD TRACTOR DIV., Ford Motor Co., 2500 E. Maple Rd. "Ford" tractor and "Dearborn" farm equipment, Wood Bros. Inc., Des Moines, Iowa, a manufacturing subsidiary.

**Minneapolis 22, Minn.**—BETTER BILT MFG. CO., 5182 W. Broadway. Manufacturer of "Culti-Leveler"—ground leveling attachment used in the cultivation of beans.

**Minneapolis 15, Minn.**—ELROY PRODUCTS CO., 529 S. 7th St. Affiliated with Hetteen Hoist & Detrick Co., Roseau, Minn. "Polaris" straw cutter and spreader.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 100 N. 1st St. Also at Des Moines, Omaha, Sioux Falls and Fargo. Wholesale distributor. Straw cutters, combining equipment.

**Minneapolis, Minn.**—MAC CO., 2840 4th Ave. S. Manufacturer of "Macco" straw sayer—attachment for combine which places two windrows into one for baling straw.

**Minneapolis 1, Minn.**—MINNEAPOLIS-MOLINE CO. Tillage tools, visionlined tractors, planters, and harvesters specially adapted to modern soy production.

**Minneapolis 14, Minn.**—ST. PAUL HYDRAULIC HOIST, 2207 University Ave. S.E. Div. of Gar Wood Industries, Inc., Wayne, Mich. Hydraulic truck body hoist.

**New Ulm, Minn.**—NEW ULM MFG CO., 107 N. Front St. Manufacturer of "Kut-Rite" straw chopper.

**Roseau, Minn.**—HETTEEN HOIST & DETRICK CO. "Polaris" cutter and spreader for cutting and spreading soybean straw while combining.

**Independence, Mo.**—GLENER HARVESTER CORP., Cottage and Hayward. Combine harvesters—14, 12, 10 and 8 foot self propelled, and 80 inch pull model.

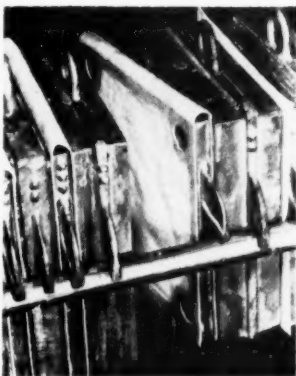
**Archbold, Ohio**—KING-WYSE, INC. Manufacturer of forage harvesters and blowers.

**Yellow Springs, Ohio**—GRINNELL FARM EQUIPMENT INC., 110 Dayton St. Wholesaler of farm equipment for use in soybean planting, cultivating and harvesting.

**York, Pa.**—OLIVER CORP., 142 N. Duke St. Manufacturer of "Iron Age" planters.

**Milwaukee, Wis.**—ALLIS CHALMERS MFG. CO., tractor div., 1135 S. 70th St. Also plants at La Porte, Ind.; La Crosse, Wis.; Gadsden, Ala.; Oxnard, Calif.; Springfield, Ill.; and Cedar Rapids, Iowa. Farm and industrial tractors, tillage tools, soybean planters, cultivators, fertilizers, and harvesters.

**Racine, Wis.**—J. I. CASE CO., 700 State St. Agricultural machinery for the production of soybeans and other crops.



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## FARM EQUIPMENT—(Continued)

**Racine, Wis.**—HARRY FERGUSON, INC. Manufactures "Ferguson" tractor and "Ferguson" system implements.

**Racine, Wis.**—MASSEY-HARRIS CO., Quality Ave. Plants at Batavia, N. Y.; Fowler, Calif.; also in Canada and Europe. Manufactures farm tractors, combines and implements.

## FERTILIZERS

**Washington 6, D. C.**—AMERICAN POTASH INSTITUTE, 1102 16th St. N.W. Educational literature on soil management.

**Atlanta, Ga.**—TENNESSEE CORP. Trace elements.

**Chicago 6, Ill.**—THOMSON PHOSPHATE DEPT., International Minerals & Chemical Corp., 20 N. Wacker Dr. Rock phosphate.

**New York 7, N. Y.**—AMERICAN AGRICULTURAL CHEMICAL CO., 50 Church St.

**New York 20, N. Y.**—AMERICAN CYANAMID CO., agricultural chemicals div., 30 Rockefeller Plaza.

**Columbia, Tenn.**—RUHM PHOSPHATE & CHEMICAL CO., P. O. Box 361. Phosphate.

**Richmond, Va.**—VIRGINIA-CAROLINA CHEMICAL CORP., 401 E. Main St. "V-C" fertilizers.

**Toronto 9, Ont., Canada**—CANADA PACKERS LTD., fertilizer and feed div., 2200 St. Clair Ave. Plants at Toronto, Welland and Chatham,

Ont.; Montreal and Ste. Foy, Que.; E. St. John, N. B.; Port Williams, N. S.; Summerside, P. E. I.; Winnipeg, Edmonton and S. Sumas. Fertilizers and feeds.

## FILTER PAPERS, CLOTHS

**Batavia, Ill.**—D. R. SPERRY & CO. Filter cloths.

**Chicago 16, Ill.**—FILTER PAPER CO., 2426 S. Michigan Ave. Filter cloths and bags, filter papers, asbestos pads, filter aids.

**East Moline, Ill.**—NIAGARA FILTERS DIV., American Machine & Metals, Inc.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Cedar Rapids, Iowa**—J. C. KINTZ CO., 1737 B Ave. N.E.

**New York 7, N. Y.**—H. REEVE ANGEL & CO., INC., 52 Duane St. Filter paper for use in laboratory and plant.

**New York 16, N. Y.**—ALBERT GODDE, BEDIN, INC., 437 5th Ave. Plant at Depew. Manufactures silk bolting cloth; nylon, orlon, and dacron filter fabrics.

**Cleveland 13, Ohio**—FILTER FABRICS INC., 1279 W. 3rd St. Filter cloths for plate and frame presses. Filter blankets. Filter bags for solvent extraction process. Gauze and straining materials.

**Mt. Holly Springs, Pa.**—EATON-DIKEMAN CO. Manufacturer of filter papers.

**Philadelphia 7, Pa.**—WM. E. HOOPER & SONS CO., Juniper and Cherry Sts. Manufacturer of cotton and synthetic filter cloth.

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## FILTER PRESSES

Fresno, Calif.—VALLEY FOUNDRY & MACHINE WORKS, INC., 2718 East Ave.

Batavia, Ill.—D. R. SPERRY & CO. Filter presses.

Chicago 16, Ill.—FILPACO INDUSTRIES, INC., 2426 S. Michigan Ave.

East Moline, Ill.—NIAGARA FILTERS DIV., American Machine & Metals, Inc.

Harrison, N. J.—T. SHRIVER & CO., INC. Filter presses.

Hoboken, N. J.—CONSOLIDATED PRODUCTS CO., INC., 52-54 Bloomfield St. Used filter presses, all sizes.

New York 36, N. Y.—OLIVER UNITED FILTERS, INC., 31 W. 42nd St. Continuous vacuum and pressure filters.

## FILTERS

Chicago 16, Ill.—FILPACO INDUSTRIES, INC., 2426 S. Michigan Ave.

Chicago 39, Ill.—OLSON FILTRATION ENGINEERS, INC., 1624 N. Kilbourn Ave. Manufactures Olson "Super-Flow" filters.

East Moline, Ill.—NIAGARA FILTERS DIV., American Machine & Metals, Inc.

Mundelein, Ill.—SPARKLER MFG. CO. "Sparkler" semi-automatic, heavy-duty, vertical plate filters.

South Walpole, Mass.—BIRD MACHINE CO. Pressure filters, vacuum filters.

Hoboken, N. J.—CONSOLIDATED PRODUCTS CO., INC., 52-54 Bloomfield St. Used vacuum and pressure filters.

New York 36, N. Y.—OLIVER UNITED FILTERS, INC., 31 W. 42nd St. Continuous vacuum and pressure filters.

Mt. Holly Springs, Pa.—EATON-DIKEMAN CO.

Oreland, Pa.—ACME COPPERSMITHING & MACHINE CO. Air filters.

Milwaukee, Wis.—ALLIS CHALMERS MFG. CO., gen. machinery div. Filters.

## FLAME CULTIVATORS

Clarksdale, Miss.—GOTCHER ENGINEERING & MFG. CO., INC., P. O. Box 721.

## FUMIGANTS

Chicago 3, Ill.—DOW CHEMICAL CO., Field Bldg., 135 S. La Salle St.

Evanston, Ill.—BURROWS EQUIPMENT CO., 116-7 Sherman Ave.

Huntington, Ind.—HUNTINGTON LABORATORIES, INC. Fumigants, sprays, powders, fly and moth killers.

North Kansas City 16, Mo.—DOUGLAS CHEMICAL CO., 620 E. 16th St.

New York 20, N. Y.—AMERICAN CYANAMID CO., agricultural chemicals div., 90 Rocketteller Plaza.

New York 6, N. Y.—LARVICIDE PRODUCTS, INC., 117 Liberty St. Soil and grain fumigants, industrial fumigants.

Richmond, Va.—VIRGINIA CAROLINA CHEMICAL CORP., 401 E. Main St. "Black Leaf" pest control products.

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## FUNGICIDES

**Naugatuck, Conn.—NAUGATUCK CHEMICAL**, div. of U. S. Rubber Co. "Phygon XL," "Phygon NL N," "Spargon Wettalide."

**New York 7, N. Y.—AMERICAN AGRICULTURAL CHEMICAL CO.**, 50 Church St.

**New York 6, N. Y.—LARVICIDE PRODUCTS, INC.**, 417 Liberty St.

## GERMINATORS

**Chicago 6, Ill.—SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 11667 Sherman Ave.

**Brookings, S. Dak.—AMES POWERCOUNT CO.**

**Fort Atkinson, Wis.—NATIONAL AGRICULTURAL SUPPLY CO.**

## GRAIN AND SEED CLEANING EQUIPMENT

**San Francisco 7, Calif.—SHANZER MFG. CO.**, 85 Bluxome St. Shanzer "Berico" aspirating grain separator.

**Rocky Ford, Colo.—OLIVER MFG. CO.** Gravity separators and stoners.

**Chicago 6, Ill.—SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 11667 Sherman Ave.

**Cedar Rapids, Iowa—BARNARD & LEAS MFG. CO., INC.**, 1200 12th St. S.W. Scalping, screening, aspirating and other equipment for grain cleaning and grading.

**Des Moines 9, Iowa—CORN STATES HYBRID SERVICE**, 1101 Walnut St.

**Alma, Mich.—CRIPPEN MFG. CO.**, 750 Virginia St. Scalpers and cleaners for cleaning and grading soybeans for commercial and seed-use quality.

**Saginaw, Mich.—A. T. FERRELL & CO.** "Clipper" soybean, grain and seed cleaning equipment.

**Minneapolis 18, Minn.—HART-CARTER CO.** Screening and aspirating equipment for removal of hulls from cracked beans.

**Minneapolis 1, Minn.—LINDSAY BROS. CO.**, 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls and Fargo. Wholesale distributor. Cleaning machinery.

**St. Paul 4, Minn.—HAACKY MILL & ELEVATOR SUPPLY**, div. of Haacky Mfg. Co., 509 Vandalia St. Aspirators, sifters and scalpers.

**Thief River Falls, Minn.—FRED FORSBERG & SONS, INC.** Gravity separators and screen cleaners, stoning separators.

**Hoboken, N. J.—CONSOLIDATED PRODUCTS CO., INC.**, 52-54 Bloomfield St. Used "Rotall," "Rotes" and vibrating screens and sifters.

**Brocton, N. Y.—HUNTLEY MFG. CO.** "Monitor" master cleaner for soybean processors.

**Lockport, N. Y.—RICHMOND MFG. CO.**, 29 Gooding St. Affiliate of Novadel Agene, Newark, N. J. Sorting equipment for cleaning soybeans; "Permaflux" magnetic separators.

**Rochester 11, N. Y.—ERDLE PERFORATING CO., INC.**, 171 York St. Grain cleaning screens.

**Silver Creek, N. Y.—S. HOWES CO., INC.** Separators, scalpers, cleaners, mixers, aspirators.

**Cincinnati 23, Ohio—ORVILLE SIMPSON CO.**, 1239 Knowlton St. "Rotex" screeners.

**Columbus 7, Ohio—BONDED SCALE & MACHINE CO.**, 95 Kingston Ave. Cleaning, sizing, grading and sorting machines.

**Sidney, Ohio—SIDNEY GRAIN MACHINERY CO.**, 424 N. Main St. Grain cleaners.

**Springfield, Ohio—DUPLEX MILL & MFG. CO.** Scalpers and cleaners.

**Westerville, Ohio—J. W. HANCE MFG. CO.** Seed graders, seed treaters, seed cleaner screen material for all types fanning mills.

**Pittsburgh, Pa.—BLAW-KNOX CO.**, chemical plants div. Seed cleaning equipment.

**Memphis, Tenn.—LEWIS SUPPLY CO.**, 477 S. Main St.

**Dallas, Tex.—SUTTON, STEELE & STEELE, INC.** "S S & S" airfloat stoners, specific gravity separators.

## GRAIN GRADING AND TESTING EQUIPMENT

**Alhambra, Calif.—MOISTURE REGISTER CO.**, 1510 W. Chestnut St. "Model GS" and "Buckeye Moisture Register"—electronic moisture testing instruments for use on soybeans, soybean oil meal, and other oil-bearing and nonmetallic, powdered and granular materials.

**Waterbury 20, Conn.—BRISTOL CO.** Manufacturer of temperature and humidity recorders.

**Chicago 6, Ill.—SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg. Official equipment for testing and grading soybeans and grain. Moisture testers.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 11667 Sherman Ave. Moisture testers.

**Cedar Rapids, Iowa—J. C. KISTZ CO.**, 1737 B Ave. N.E.

**Atchison, Kans.—FRED STEIN LABORATORIES**, 121 N. 4th St. Manufactures electronic instrument for rapidly testing oil content of seeds; other models for testing moisture content of oil meal and seeds.

**Minneapolis, Minn.—CUTHBERT CO., INC.**, 202 4th Ave. S. Plants at 322 S. 3rd St. and 246 4th Ave. S. Manufactures test equipment. Moisture, dockage and general elevator supplies.

**Minneapolis 18, Minn.—HART-CARTER CO.** Dockage testers.

**Brooklyn 1, N. Y.—HYGROTESTER, INC.**, P. O. Box 923. "Hygrotester" for testing or regulating moisture in all kinds of oil seeds. Also used for measuring control of moistening process in press or extraction residues.

**Westerville, Ohio—J. W. HANCE MFG. CO.** Grading machinery for industry, small capacity.

**Brookings, S. Dak.—AMES POWERCOUNT CO.** Dockage testers.

**Memphis, Tenn.—LEWIS SUPPLY CO.**, 477 S. Main St.

## GRAIN HANDLING EQUIPMENT

**Chicago 6, Ill.—SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 11667 Sherman Ave.

**Geneva, Ill.—DUNBAR KAPPLE INC.** "Vac-U-Vator" pneumatic grain handler.

**Minneapolis, Minn.—CUTHBERT CO., INC.**, 202 4th Ave. S. Plants at 322 S. 3rd St. and 246 4th Ave. S.

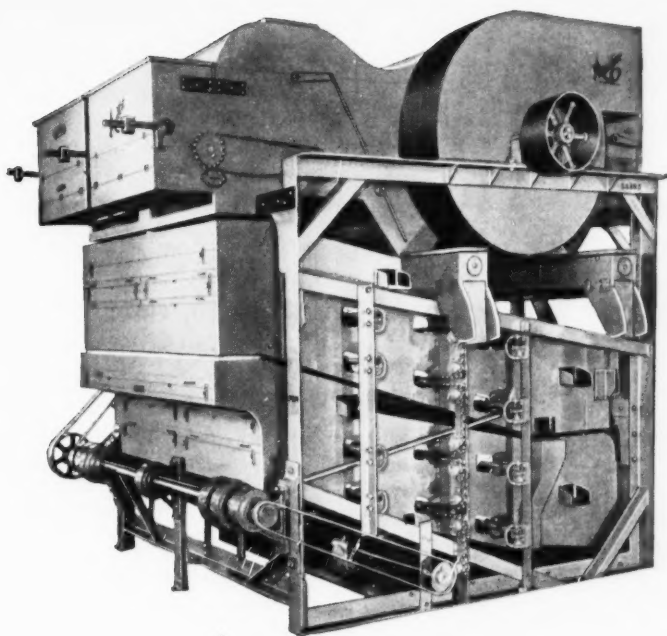
**York, Nebr.—YORK FOUNDRY & ENGINE WORKS**, 913-928 Grant Ave. Complete grain handling equipment.

**Columbus 7, Ohio—BONDED SCALE & MACHINE CO.**, 95 Kingston Ave.

**Brookings, S. Dak.—AMES POWERCOUNT CO.** Seed blowers. Seed counting devices.

**Memphis, Tenn.—LEWIS SUPPLY CO.**, 477 S. Main St.





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The latest example of advanced design in Receiving Separators. Will answer your Soybean cleaning problems.

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SOYBEAN BLUE BOOK

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**Atlanta, Ga. — DAVIDSON KENNEDY CO.**, 1099 Jefferson St. N.W., P. O. Box 97, Sta. D. Toasters, cracking and flaking rolls.

**Chicago 51, Ill.—HAMMERMILLS INC.**, 4710 W. Division St. Subsidiary of Pettibone Mulliken Corp. Crushing, grinding, mixing, hashing, pulverizing and shredding equipment.

**Chicago 50, Ill.—PRATER PULVERIZER CO.**, 1517-49 S. 55th Court. Dual screen pulverizers for soybean oil meal; two-stage grinding setups; special hull grinders; "Blue Streak" triple reduction mills; hammermills.

**Chicago 6, Ill. — SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Decatur, Ill.—HUSS & SCHLIEPER**, 714 N. Church St., P. O. Box 862. Shaker-type feeders.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Streator, Ill.—MYERS SHERMAN CO.**, 1643 S. Illinois St. Hammermills, molasses mixers, vertical batch mixers.

**Cedar Rapids, Iowa—BARNARD & LEAS MFG. CO., INC.**, 1200 12th St. S.W. Roller mills; burr mills; hammermills.

**Cedar Rapids, Iowa—J. C. KINTZ CO.**, 1717 B Ave. N.E.

**Marion, Iowa—RAPIDS MACHINERY CO.**, 889 11th St. "Marion" feed mixers and finishers.

**Bonner Springs, Kans.—H. C. DAVIS SONS' MILL MACHINERY CO.**, Dept. SGI. Roller mills and batch mixers.

**Wichita 12, Kans.—FORSTER MFG. CO.** Hammermills.

**Wichita 4, Kans. — W.W. GRINDER CORP.**, 2957 N. Market. Manufacturer of hammermills.

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**Minneapolis 14, Minn.—JACOBSON MACHINE WORKS**, 1094 10th Ave. S.E. Hammermills.

**Minneapolis 15, Minn. — SCHUTZ O'NEILL CO.**, 307 Portland Ave. Pulverizers.

**Minneapolis, Minn. — STRONG-SCOTT MFG. CO.**, Taft and Kennedy St. N.E. Grinders, mixers, scalpers.

**St. Paul 4, Minn.—HAAKY MILL & ELEVATOR SUPPLY**, div. of Haaky Mfg. Co., 509 Vandalia St. Dehulling equipment.

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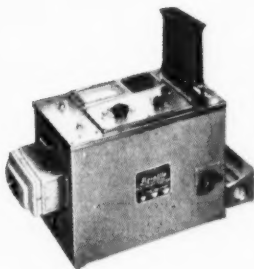
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**THIS SEEDBURO STEINLITE** gives you **oil content** within plus or minus .25 percent of official Soxhlet extraction method. Takes less than 10 minutes. Anyone without previous experience, can make these tests following simple directions. Increase soybean mill efficiency and profits.

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**Model 400 G** For soybeans, cottonseed, cotton, flax, peanuts, corn, grain.



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## GRINDING AND MIXING EQUIPMENT—(Continued)

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**Kansas City, Mo.—GENERAL MILL EQUIPMENT CO.**, 2021 Pennsylvania Ave. Concentrate and batch mixers.

**St. Louis 6, Mo.—GRUENDLER CRUSHER & PULVERIZER CO.**, 2915 2917 N. Market. Slow speed grinder for grinding of expeller cake. Fine grinder for fine flour, glue, plastics, chemical process and food industry.

**St. Louis 6, Mo.—WILLIAMS PATENT CRUSHER & PULVERIZER CO.**, 2705 N. Broadway. "Meteor" grinders.

**Fort Lee, N. J.—BUHLER BROS., INC.**, State Highway No. 4. Machine importer and manufacturer of cracking and flaking rolls.

**Hoboken, N. J.—CONSOLIDATED PRODUCTS CO., INC.**, 52 54 Bloomfield St. Used hammer mills, attrition mills, pulverizers and mixers.

**Summit, N. J.—PULVERIZING MACHINERY CO.**, River and Chatham Roads. Manufacturer of "Mikro-Pulverizer" for granular or fine grinding; "Mikro-Atomizer" for ultra fine grinding.

**Buffalo 15, N. Y.—SCHUTTE PULVERIZER CO.**, 27 Clyde Ave. Grinding and mulling equipment.

**Rochester 11, N. Y.—ERDLE PERFORATING CO., INC.**, 171 York St. Perforated metals made to special order.

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**Marion, Ohio—FAIRFIELD ENGINEERING CO.**, 321 Barnhart St. "Fairfield-Hughes" hammermill, "Fairfield-Haines" mixer.

**Sidney, Ohio—SHELBY MFG. CO.**, 219 E. Court St. Vertical mixers.

**Sidney, Ohio—SIDNEY GRAIN MACHINERY CO.**, 421 N. Main St. Hammermills and feed mixers.

**Springfield, Ohio—BAUER BROS. CO.** Laboratory mills, attrition mills, hammermills, soybean hull aspirators, hullers, exhausters, crushers for seed cakes, feeders, breakers, shakers, specific gravity separatory facilities for experimental projects.

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**Pittsburgh, Pa.—CONTINENTAL FOUNDRY & MACHINE CO.**, 220 Grant St. Milling and flaking rolls.

**Franklin, Tenn.—J. B. SEDBERRY, INC.** Hammermills; "Jay Bee" grinding equipment, batch and molasses mixers.

**Fort Worth, Tex.—WHITTA INDUSTRIAL MFG. CO.**, P. O. Box 307, 3431 W. Vickery Blvd. Batch mixers.

**Milwaukee, Wis.—ARNOLD DRYER CO.**, 3000 W. Montana. Hammermills.

**Milwaukee 46, Wis.—DINGS MAGNETIC SEPARATOR CO.**, 4740 W. Electric Ave. Manufactures magnetic separators.

**Toronto, Ont., Canada—CANIMPEX AGRICULTURAL PRODUCTS & FEEDS**, 40 Wellington St. E. Deomatic universal hulling and decorticating machine for hulling and processing soybeans. Duplex impact grinding mill.

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**Middleport, N. Y.—NIAGARA CHEMICAL DIV.**, Food Machinery & Chemical Corp. Also plants in Harlingen, Tex.; Wyoming, Ill.; Richmond, Calif.; Jacksonville, Fla. Weed killers.

**New York 6, N. Y.—LAVICIDE PRODUCTS, INC.**, 117 Liberty St. Weed killers.

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**Chicago 90, Ill.—ALBERT DICKINSON CO.**, Box 788. "Nod-O-Gen."

**Quincy, Ill.—KALO INOCULANT CO.** Legume inoculants. "Kalo," "En Culture."

**Urbana, Ill.—HANSEN INOCULATOR CO.**, 898 N. Lincoln Ave. "Hansen's Inoculator."

**Urbana, Ill.—URBANA LABORATORIES**, 406 N. Lincoln. "Urbana Culture" and "Urbana Hannus Inoculator" for all legume seeds; also materials and supplies for testing soils for deficiencies in lime, phosphorus, potassium and nitrogen.

**Columbus 16, Ohio—AGRICULTURAL LABORATORIES, INC.**, 1145 Chesapeake Ave. "Legume Aid," the inoculant in the cotton.

**Clemson, S. C.—SOUTHERN INOCULATION LABORATORY**, 193 Hilerest. Producer of inoculation for legume seeds.

**Fort Atkinson, Wis.—NATIONAL AGRICULTURAL SUPPLY CO.**

**Milwaukee 9, Wis.—NITRAGIN CO., INC.**, 3279 W. Custer Ave. "Nitrugin Seed" inoculation.

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**Naugatuck, Conn.—NAUGATUCK CHEMICAL**, div. of U. S. Rubber Co. "Aramite-15W," "Synklor-50-W" and "Synklor-48-E."

**Wilmington, Del.—E. I. du PONT de NEMOURS & CO., INC.**, Grasselli chemicals dept. "Marlate" methoxychlor insecticide.

**Chicago 11, Ill.—D-COON CO., INC.**, 112 E. Walton St. Dry cereal rodenticidal baits containing Warfarin; and Warfield rodenticide.

**Chicago 6, Ill.—SEEDBURO EQUIPMENT CO.**, 793 Converse Bldg.

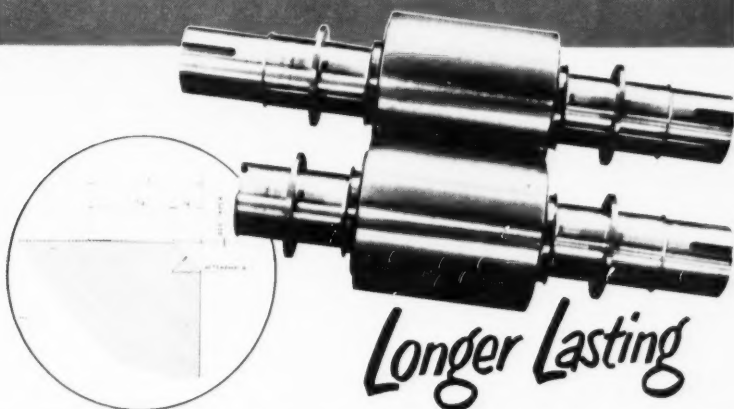
**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Cedar Rapids, Iowa—J. C. KINTZ CO.**, 1737 B Ave. N.E.

**North Kansas City 16, Mo.—DOUGLAS CHEMICAL CO.**, 620 E. 16th Ave.

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Cross section of a typical end-relief. Good practice recommends a  $\frac{1}{4}$ " x 45 deg. chamfer on the end of the roll body combined with a ground relief of a few thousandths of an inch extending in to the limit of the roll surface. This further assists in eliminating end-spalling arising from unequal pressure on the roll ends.

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## INSECTICIDES AND PESTICIDES (Continued)

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**New York 20, N. Y.**—AMERICAN CYANAMID CO., agricultural chemicals div., 30 Rockefeller Plaza.

**New York 5, N. Y.**—U. S. INDUSTRIAL CHEMICALS CO., div. National Distillers Products Corp., 120 Broadway. Base chemicals: "Piperonyl Butoxide," "Piperonyl Cyclonene," "Liquid and dust concentrates: "Pyrenone," "Pyrethrum," "Rotenone" and "CPR." Finished insecticides: "Pyrenone" grain protectant.

**Pittsburgh 19, Pa.**—ALUMINUM COMPANY OF AMERICA, 770 Dept. 2, Alcoa Bldg. "Alcoa" cryolite insecticide.

**Richmond, Va.**—VIRGINIA-CAROLINA CHEMICAL CORP., 401 E. Main St. "Black Leaf" pest control products.

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**South Pasadena, Calif.**—BECKMAN INSTRUMENTS, INC., 830 Mission St. "Beckman Automatic Titrator" for titrations in chemical laboratory; "Beckman pH Meters" for hydrogen-ion determinations; "Beckman Spectrophotometers" for chemical analysis of soybean oil; "Beckman Aquameter" for moisture determination.

**Chicago 13, Ill.**—CENTRAL SCIENTIFIC CO., 1700 Irving Park Rd. Branches at Boston, Tulsa, Newark, Santa Clara, Los Angeles, Toronto and Montreal. Instruments for laboratory testing of soybeans and derivatives.

**Chicago 47, Ill.**—PRECISION SCIENTIFIC CO., 3737 W. Cortland. Kjeldahl apparatus, crude fibre digestion, extraction; "Freas" and "Thelco" laboratory ovens; water stills; "Pensky-Martins" flash tester.

**Chicago 51, Ill.**—WILKENS ANDERSON CO., 4525 W. Division St. 6B Coleman Spectrophotometer.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Kansas City, Mo.**—LABORATORY CONSTRUCTION CO., 1113 Holmes St. Specialized laboratory apparatus for the soybean industry.

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**Newark 5, N. J.**—WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave. Indicating, recording and controlling instruments; moisture meters.

**Tulsa, Okla.**—REFINERY SUPPLY CO., 621-623 E. 4th St. Manufacturer and supplier of scientific equipment. "R. S." cottonseed oil sampler; A. O. C. S. official oil trier.

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**Sidney, Ohio—SIDNEY GRAIN MACHINERY CO.**, 424 N. Main St.

**Memphis, Tenn.—LEWIS SUPPLY CO.**, 477 S. Main St.

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**Aurora, Ill.—STEPHENS ADAMSON MFG CO.** Also offices in Los Angeles, St. Louis, New York and Chicago. Plants at Aurora, Los Angeles and Belleville, Ont. Bulk material handling equipment.

**Bloomington, Ill.—EIKENBERRY CO.**, 606 S. East St. Plant at 204 E. Elm St. Jobber of all material handling equipment.

**Chicago 51, Ill.—HAMMERMILLS INC.**, 4700 W. Division St. Subsidiary of Pettibone Multiken Corp.

**Chicago 1, Ill.—LINK BELT CO.** Also at Indianapolis, Philadelphia and Colmar, Pa.; Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 13167 Sherman Ave.

**Jackson, Mich.—McLAUGHLIN, WARD & CO.**, 409 S. 23rd St.

**Beatrice, Nebr.—TOTE SYSTEM, INC.**, 700 S. 7th St. Affiliate of Beatrice Steel Tank Mfg. Co. "Tote System" bulk material handling equipment.

**Columbus 16, Ohio—JEFFREY MFG CO.**, 799 N. 4th St.

**Bangor, Pa.—GODSHALK SHEET METAL FABRICATORS**, N. Main St. Materials handling equipment for the feed and grain trade.

**Muncy, Pa.—SPROUT, WALDRON & CO., INC.**

**Philadelphia 29, Pa.—AMERICAN PULLEY CO.**, 4200 Wissahickon Ave.

**Memphis, Tenn.—LEWIS SUPPLY CO.**, 477 S. Main St.

**Fort Worth, Tex.—FORT WORTH STEEL & MACHINERY CO.**, 7600 McCart St.

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**Chicago 44, Ill.—HARRINGTON & KING PERFORATING CO.**, 5655 Fillmore St. Manufacturer of perforated screens and other types of perforated material.

**Chicago 50, Ill.—PRATER PULVERIZER CO.**, 1517-49 S. 55th Court. Rotary airlocks, permanent magnets.

**Chicago 47, Ill.—SIGNODE STEEL STRAPPING CO.**, 2610 N. Western Ave., Dept. SBB. Grain chobs, retaining doors, retaining strips, strapping and accessories.

**Evanston, Ill.—BURROWS EQUIPMENT CO.**, 13167 Sherman Ave.

**Peoria, Ill.—PAUL J. HAGERTY EQUIPMENT CO.**, 800 S. Adams St. Spout magnets, wire rope and accessories.

**Springfield, Ill.—SPRINGFIELD BOILER CO.**, div. of John W. Hobbs Corp., 1900 E. Capitol Ave. Boilers, steam generating units.

**Cedar Rapids, Iowa—DIVINE ENGINEERING, INC.**, 315 7th Ave. S.E. Supplier.

**Minneapolis, Minn.—R. R. HOWELL CO.** Magnets, head drives, motors.

**Minneapolis 14, Minn.—JACOBSON MACHINE WORKS**, 1094 10th Ave. S.E. Magnetic equipment.

**St. Paul 8, Minn.—PAPER-CALMENSON & CO.**, County Rd. B. and Walnut St. Steel warehouse and fabricating.

**St. Louis 3, Mo.—CENTURY ELECTRIC CO.**, 1806 Pine St. Offices in principal cities. Manufactures electric motors, generators, and selective speed power units.

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**Bristol, N. H.—INTERNATIONAL PACKING CORP.** Affiliate of Graton & Knight Co., Worcester, Mass. Also at Chicago, Dallas, Detroit, Kansas City and St. Louis, New York, Philadelphia, San Francisco. Leather and synthetic rubber packings, adaptors, bellows, cup, diaphragm, flange oil seal, "O" ring, "U," "V," washers.

**Lockport, N. Y.—RICHMOND MFG CO.**, 29 Gooding St. Affiliate of Novadel Agene, Newark, N. J. Stream splitters.

**Long Island City, N. Y.—MANHATTAN PERFORATED METAL CO.**, 43-17 37th St. Perforated metal and grilles.

**New York 4, N. Y.—INGERSOLL RAND CO.**, 11 Broadway. Plants at Phillipsburg, N. J.; Painted Post, N. Y.; Athens, Pa. Compressors; power tools.

**Archbold, Ohio—KING WYSE, INC.** Electric motors.

**Cleveland 7, Ohio—MARTINDALE ELECTRIC CO.**, 1327 Hird Ave. Manufactures industrial tools, supplies and safety equipment. Protective dust mask.

**Springfield, Ohio—ROBBINS & MYERS, INC.**, 145 Lagonda Ave. Also plants at Memphis, and Brantford, Ont. Hoists and cranes; motors—totally enclosed, explosion proof, all-weather polyphase.



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**Oreland, Pa.**—ACME COPPERSMITHING & MACHINE CO. "Acme" multi-jet barometric condensers.

**Brookings, S. Dak.**—AMES POWERCOUNT CO. Plastic seed containers.

**Memphis, Tenn.**—I. E. DILWORTH CO., 730 S. 3rd, P. O. Box 2834. Also in Jackson, Miss., and Tuscaloosa, Ala. Industrial supply distributor of motors, reducers, electric controls and instruments; heavy hardware, pipe, valves and fittings.

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**Memphis, Tenn.**—INDUSTRIAL ELECTRIC & SUPPLY CO., 62 Auction St. Electrical equipment; motors—new and rebuilt.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 427 S. Main St. Steel warehouse and equipment and supplies for the grain industry.

**Dallas, Tex.**—BRIGGS WEAVER MACHINERY CO., 5000 Harry Hines Blvd. Also at Fort Worth and Houston. Distributor of industrial machinery and supplies.

**Fort Worth, Tex.**—WELL MACHINERY & SUPPLY CO. INC., 1629 Main St. General industrial supplies and equipment.

**Fort Atkinson, Wis.**—NATIONAL AGRICULTURAL SUPPLY CO. Soil testers and samplers; disease specimens and exhibits.

**Milwaukee 46, Wis.**—STEARNS MAGNETIC INC., 688 S. 28th St. All types of permanent and electro magnetic separators (spout magnetic drums, magnetic pulleys, plate magnets, suspended separation magnets); magnetic brakes and chutes.

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**Detroit, Mich.**—DODGE DIV., Chrysler Corp. Truck plant at 21500 Mound Rd. Manufactures a complete line of motor trucks.

**Pontiac, Mich.**—GMC TRUCK & COACH DIV., General Motors Corp., 600 S. Boulevard E. Farm trucks; trucks for distributing soybean products; heavy-duty vehicles for moving machinery, raw materials and products.

**Cleveland 1, Ohio**—WHITE MOTOR CO., 2021 S. 54th St. Heavy duty motor trucks.

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**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1367 Sherman Ave.

**Hoopeston, Ill.**—FOOD MACHINERY & CHEMICAL CORP., canning machinery div. Labelers, boxers and filling machines—liquid, oil, viscous.

**Anderson, Ind.**—LYNCH CORP., P. O. Box 271. "Morpac" combined print forming, wrapping and cartoning machines for margarine.

**Cedar Rapids, Iowa**—BARNARD & LEAS MFG CO., INC., 1200 12th St. S.W. All electric and line-shaft driven auger packers.

**Rosindale 31, Mass.**—NATIONAL PACKAGING MACHINERY DIV., U. S. Automatic Box Machinery Co., Inc., 23 Aboretum Rd. Packaging machinery.

**Quincy 71, Mass.**—PNEUMATIC SCALE CORP., LTD., 65 Newport Ave. Automatic packaging and bottling machinery.

**Hoboken, N. J.**—CONSOLIDATED PRODUCTS CO., INC., 52 54 Bloomfield St. Used labelers, filling machines, packaging, bottling and wrapping machines.

**New York 14, N. Y.**—AUTOMATIC SCALE CO., INC., 591 Hudson St. Weighers, fillers, sackers.

**New York 17, N. Y.**—INTERNATIONAL PAPER CO., bagpak div., 220 E. 42nd St. Plants at Camden, Ark. and Bastrop, La. Bag filling and packaging machinery.

**Cincinnati, Ohio**—KARL KIEFER MACHINE CO., 919 Martin St. Equipment for cleaning, filling, closing, and conveying containers used in packaging of liquid and viscous materials.

**Pittsburgh 4, Pa.**—HORIX MFG CO., Greenway Dr. Liquid fillers.

## PELLET MACHINES

**San Francisco 3, Calif.**—CALIFORNIA PELLET MILL CO., 1800 Folsom St. Also at Crawfordsville, Ind.; Kansas City 8, Mo.

**Cedar Rapids, Iowa**—BARNARD & LEAS MFG CO., INC., 1200 12th St. S.W. "Cold Process" pellet mill.

**Cedar Rapids, Iowa**—J. C. KINTZ CO., 1737 B. Ave. N.E.

**Owensboro, Ky.**—ANGLO AMERICAN MILL CORP.

**Minneapolis 20, Minn.**—ALLOY HARDFACING CO., 8710 S. Lyndale. Manufactures and rebuilds high production pellet mill rolls with a hardfacing alloy and slots them diagonally.

**Minneapolis, Minn.**—STRONG SCOTT MFG. CO., Taft and Kennedy St. N.E. Pellet coolers.

**Hoboken, N. J.**—CONSOLIDATED PRODUCTS CO., INC., 52 54 Bloomfield St. Used pellet machines.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC.

## POWER TRANSMISSION EQUIPMENT

**Birmingham, Ala.**—CONTINENTAL GIN CO., industrial div. Offices at Atlanta, Dallas, Memphis, Knoxville and New York.

**Aurora, Ill.**—STEPHENS ADAMSON MFG CO. Also offices in Los Angeles, St. Louis, New York and Chicago. Plants at Aurora, Los Angeles and Belleville, Ont.

**Chicago 1, Ill.**—LINK-BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Chains, sprockets, bearings, couplings, speed reducers, gearmotors,

SOYBEAN BLUE BOOK

## POWER TRANSMISSION EQUIPMENT—(Continued)

variable speed drives, backstops, V-belt and chain drives, etc.

**Decatur, Ill.**—**HUSS & SCHLIEPER**, 714 N. Church St., P. O. Box 862.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316 7 Sherman Ave.

**Peoria, Ill.**—**PAUL J. HAGERTY EQUIPMENT CO.**, 800 S. Adams St. Roller chain and sprockets; motors and controls; moto-reducers; pulleys, bearings; takeups.

**Mishawaka, Ind.**—**DODGE MFG. CORP.** Taper-Lock bushed V-belt sheaves, sprockets, couplings (flexible and rigid) and steel conveyor pulleys; bearings; split steel transmission pulleys; Torque Arm speed reducers; shaft collars; takeups; variable speed drives.

**Cedar Rapids, Iowa**—**DIVINE ENGINEERING, INC.**, 315 7th Ave. S.E. Supplier of motors, flexible couplings, speed reducers, sprockets, pulleys, bearings; take ups.

**Enterprise, Kans.**—**J. B. EHRSAM & SONS MFG. CO.** Power transmission equipment including pulleys, gears, plain and anti-friction bearings, shafting, clutches, sprockets, pillow blocks, V-belt sheaves, flexible and rigid couplings.

**Jackson, Mich.**—**McLAUGHLIN, WARD & CO.**, 401 S. 2nd St.

**Minneapolis, Minn.**—**R. R. HOWELL CO.** Power transmissions.

**Minneapolis, Minn.**—**STRONG SCOTT MFG. CO.**, Taft and Kennedy St. N.E. V-belt drives.

**York, Nebr.**—**YORK FOUNDRY & ENGINE WORKS**, 912-928 Grant Ave. V-belt and roller chain drives complete with speed reducers and motors.

**Columbus 16, Ohio**—**JEFFREY MFG. CO.**, 799 N. 4th St.

**Oklahoma City, Okla.**—**SOUTHWESTERN SUPPLY & MACHINE WORKS**, 6 E. Chickasaw St.

**Muncy, Pa.**—**SPROUT, WALDRON & CO., INC.** Cast iron pulleys.

**Philadelphia 29, Pa.**—**AMERICAN PULLEY CO.**, 4200 Wissahickon Ave. Speed reduction units, V-belt sheaves, V-belts, motor bases, adjustable-speed sheaves, steel split pulleys, conveyor pulleys, Hi-Torque pulleys.

**Philadelphia 34, Pa.**—**PHILADELPHIA GEAR WORKS, INC.**, G St. below Erie Ave. Also operates Virginia Gear & Machine Co., Lynchburg, Va. All types of power transmission equipment including gears, speed reducers, valve controls, gearmotors, couplings.

**Philadelphia 32, Pa.**—**SKE INDUSTRIES, INC.**, Front St. and Erie Ave. Other plants at Hornell, N. Y.; Shippensburg and Altoona, Pa. Manufactures ball and roller bearings; pillow blocks; steel, stainless and bronze balls.

**Memphis, Tenn.**—**LEWIS SUPPLY CO.**, 477 S. Main St. Distribution of industrial supplies.

**Fort Worth, Tex.**—**FORT WORTH STEEL & MACHINERY CO.**, 3600 McCart St. Offices in Chicago, St. Louis and Kansas City. V-belt drives and roller chain sprockets.

**Houston, Tex.**—**HOUSTON BELTING & SUPPLY CO.**, 1717 Walker St.

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## PROCESSING EQUIPMENT

### BATCH SOLVENT EXTRACTORS

Piqua, Ohio.—**FRENCH OIL MILL MACHINERY CO.**

### CONTINUOUS COUNTERCURRENT SOLVENT EXTRACTORS

Minneapolis 20, Minn.—**ALLOY HARDFACING CO.**, 8710 S. Lyndale. Solvent shafts.

Minneapolis 13, Minn.—**CROWN IRON WORKS CO.**, 1229 Tyler St. N.E.

St. Paul 1, Minn.—**FUEL ECONOMY ENGINEERING CO.**, 510 New York Bldg. Engineering and construction of soybean solvent extraction plants.

East Orange, N. J.—**OTTO H. YORK CO., INC.**, 69 Glenwood Pl. "Yorkmesh Demisters," entrainment separator and mist eliminator wire mesh pads for installation in solvent recovery equipment, vacuum distillation equipment, etc.

East Orange, N. J.—**YORK PROCESS EQUIPMENT CORP.**, 69 Glenwood Place. Liquid-liquid extraction equipment for refining processes. Entrainment separator vessels.

New York 17, N. Y.—**PRODUCTION ENGINEERING CO.**, 420 Lexington Ave.

Cleveland 2, Ohio.—**V. D. ANDERSON CO.**, 1990 W. 96th St. Designer and fabricator of complete petroleum and non-flammable type solvent extraction plants and equipment.

Piqua, Ohio.—**FRENCH OIL MILL MACHINERY CO.** Vertical, rectangular, and horizontal basket extractors; solvent toasters.

Coatesville, Pa. — **LUKENWELD**, div. of Lukens Steel Co. Process designer, engineer and contractor of "package" plants for the direct solvent extraction (filtration-extraction) of vegetable oils.

Glen Riddle, Pa.—**PITTOCK & ASSOCIATES**. Used solvent extraction plants, Anderson and others.

Philadelphia, Pa.—**STOCKDALE ENGINEERING CO.**, 2300 Westmoreland St. Affiliate of Extraction Continue De Smet, Antwerp, Belgium. Distributor of "De Smet" continuous solvent extraction plants and auxiliary equipment.

Pittsburgh, Pa.—**BLAW-KNOX CO.**, P. O. Box 1198.

Milwaukee, Wis. — **ALLIS CHALMERS MFG. CO.**, gen. machinery div.

London, W.C.1, England—**BAMAG (1953) LTD.**, 22 Upper Woburn Place.

### CONTINUOUS SCREW PRESSES

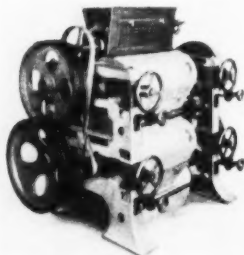
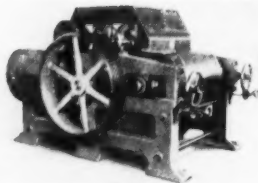
Minneapolis 20, Minn.—**ALLOY HARDFACING CO.**, 8710 S. Lyndale. Expeller shafts.

Cleveland 2, Ohio.—**V. D. ANDERSON CO.**, 1990 W. 96th St. Exclusive builder of "Expellers." Designer of complete oil mills.

Piqua, Ohio.—**FRENCH OIL MILL MACHINERY CO.** Continuous screw presses.

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## PROCESSING EQUIPMENT— (Continued)

Glen Riddle, Pa.—PITTOCK & ASSOCIATES. Anderson and French screw presses; continuous screw presses. Rebuilt for all oilseeds.

### HYDRAULIC PRESSING EQUIPMENT

Piqua, Ohio—FRENCH OIL MILL MACHINERY CO.

### MISCELLANEOUS

San Francisco 10, Calif.—ENTERPRISE ENGINE & MACHINERY CO., 18th and Florida Sts. Subsidiary of General Metals Corp. Foods press—free oil extraction from foods.

San Francisco 11, Calif.—MERCOCENTRIFUGAL CO., 130 Green St. Affiliate of Merrill Co., engineers. Manufactures industrial centrifuges used in separation processes.

Santa Rosa, Calif.—RIETZ MFG. CO., 150 Todd Rd. Manufacturer of equipment for food and chemical process industries. "Rietz" vertical disintegrator; feed systems.

Waterbury 20, Conn.—BRISTOL CO. Temperature recorders; pH measurement and control instruments.

Chicago 50, Ill.—B. F. GUMP CO., 1309 S. Cicero Ave. Feeders.

Chicago 4, Ill.—STANSBURY ENGINEERING & SALES, 53 W. Jackson Blvd. Plant at 69 S. River St., Aurora. Manufactures Stansbury Steam Saver—a closed condensate return system.

Decatur, Ill.—BOWMAN WELDING & METAL WORKS, 501 E. North St. Manufactures and rebuilds hard surfaced screw type press parts.

East Moline, Ill.—NIAGARA FILTERS DIV., American Machine & Metals, Inc.

East Moline, Ill.—TOIHURST CENTRIFUGALS DIV., American Machine & Metals, Inc. Centrifugal extractors.

Davenport, Iowa—DAVENPORT MACHINE & FOUNDRY CO., 1628 W. 4th St. "Rotary" dryers, conditioners and coolers used in solvent extraction.

Belleville 9, N. J.—WALLACE & TIERNAN INC., 25 Main St. "Merchen" belt-type gravimetric scale feeders and meters for blending, inventory records, process yield records, quality control, bulk loading or unloading. Feeders adaptable for either continuous or batch operations.

Hoboken, N. J.—CONSOLIDATED PRODUCTS CO., INC., 5254 Bloomfield St. Used Anderson and French screw presses, extractors, stills, columns and kettles.

Rochester 1, N. Y.—TAYLOR INSTRUMENT COMPANIES, 95 Ames St. Manufactures instruments for indicating, recording and controlling temperature, pressure, flow, density, liquid level and humidity.

Cleveland 2, Ohio—V. D. ANDERSON CO., 1990 W. 96th St. Coolers, screening tanks, flakers, steam traps, atmospheric and pressure meal toasters, distillation systems, filters, steam, gas, air and vapor purifiers, special fabricated equipment.

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## PROCESSING EQUIPMENT (Continued)

**Erie, Pa.**—ERIEZ MFG. CO. Permanent non-electric magnets, magnetic non-electric separators.

**Glen Riddle, Pa.**—PITTOCK & ASSOCIATES. Miscellaneous used and rebuilt oil mill equipment, including meal toasters, coolers, filter presses, oil screening tanks, grinders, scales, elevators and screw conveyors.

**Homer City, Pa.**—SYNTRON CO., 466 Lexington. Also plant at Blairsville, Pa. Electric vibrators for bins, hoppers, and chutes; vibratory feeders for controlling the flow of materials.

**Mertztown, Pa.**—ATLAS MINERAL PRODUCTS CO. Also at Houston, Tex. Coatings, linings, cements and jointing materials resistant to soybean oil; solvents, alkalis and acids employed in the soybean industry.

**Oreland, Pa.**—ACME COPPERSMITHING & MACHINE CO. Distillation equipment. Drying ovens (with solvent recovery apparatus).

**Philadelphia, Pa.**—MINNEAPOLIS HONEYWELL REGULATOR CO., Wayne and Windrim Aves. Design and fabrication of automatic control instruments and complete process control systems.

**Warren, Pa.**—STEUTHERS WELLS CORP. Solvent recovery. Solvent removal.

**Brookings, S. Dak.**—AMES POWERCOUNT CO. Designs and manufactures special equipment for research or other purposes.

**Fort Worth, Tex.**—V. A. LESSOR & CO., P. O. Box 108. Used oil mill equipment.

**Milwaukee, Wis.**—ALLIS CHALMERS MFG. CO., gen. machinery div. Solvent recovery apparatus (distillation).

**Milwaukee 12, Wis.**—CLEAVER BROOKS CO., 320 E. Keefe Ave. Also operates Michael Yundt Co., Waukesha, Wis. Bolders for heating and processing; burners for industrial and commercial installations.

## PUMPS

**Fresno, Calif.**—VALLEY FOUNDRY & MACHINE WORKS, INC., 710-734 H. St. Pumps—centrifugal and rotary in stainless steel and bronze.

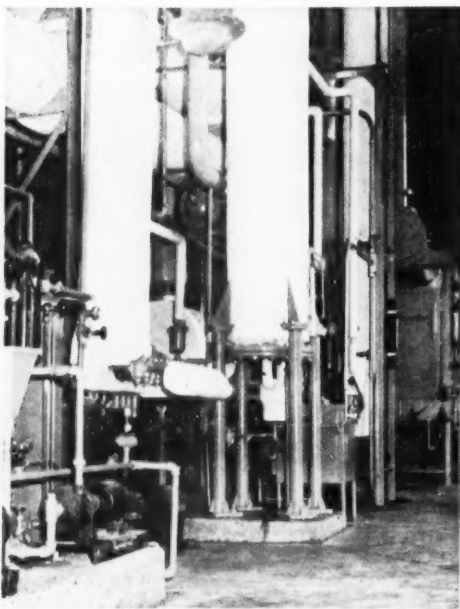
**Rockford, Ill.**—GEO. D. ROPER CORP., pump div., 508 Blackhawk Park Ave. Rotary (gear-type) positive displacement pumps for transfer of soybean oil.

**Cedar Falls, Iowa**—VIKING PUMP CO. Rotary pumps for handling soybean oils and solvents.

**Warren, Mass.**—WARREN STEAM PUMP CO., INC., Bridges Ave. "Warren" and "Warren-Quimby" centrifugal, reciprocating and rotary-type pumping machinery.

**Grand Rapids 9, Mich.**—BLACKMER PUMP CO., INC. Rotary power pumps, rotary hand pumps.

**Minneapolis 13, Minn.**—JEROME SIMER CO., 422 Stinson Blvd. Paddle pumps, bronze or stainless steel, used as self-priming, oil or chemical transfer pumps.



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IRON WORKS CO.**  
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Minneapolis 13, Minn.

## PUMPS—(Continued)

**Brooklyn 1, N. Y.**—FOSTER PUMP WORKS, INC., 51 A Washington St. Soybean oil pumps, solvent pumps, foots pumps used in deodorizing hydrogenating and fractionating processes.

**New York 4, N. Y.**—INGERSOLL RAND CO., 11 Broadway. Plants at Phillipsburg, N. J.; Painted Post, N. Y.; Athens, Pa.

**New York 16, N. Y.**—OLIVER UNITED FILTERS INC., 31 W. 42nd St. Pumps—centrifugal, vacuum, diaphragm.

**Springfield, Ohio**—ROBBINS & MYERS, INC., 1145 Lagonda Ave. Also plants at Memphis, and Brantford, Ont. Moyno "Progressive Cavity" pump.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

## REFINING EQUIPMENT AND SUPPLIES

### BLEACHING AND FILTERING

**Los Angeles 17, Calif.**—DICALITE DIVISION, Great Lakes Carbon Corp., 612 S. Flower St. Other offices at 331 N. Michigan Ave., Chicago 1, Ill.; 18 E. 48th St., New York 17, N. Y. Manufactures diatomaceous earth filteraids for filtration of soybean oil or any other liquid or liquid concerned in processing soy products.

**Los Angeles 17, Calif.**—FILTROL CORP., 727 W. 7th St. Plants at Vernon, Calif.; Jackson, Miss.; Salt Lake City, Utah. Activated adsorbents, deodorizing adsorbents, desiccants, activated bleaching clays, activated bleaching earths.

**Chicago 16, Ill.**—FILPACO INDUSTRIES, INC., 2426 S. Michigan Ave. Filter presses.

**Chicago 6, Ill.**—SIECK & DRUCKER, INC., 9 S. Clinton St. Bleaching installations.

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1137 E. 52nd St. Bleaching installations.

**East Moline, Ill.**—NIAGARA FILTERS DIV., American Machine & Metals, Inc.

**Louisville 1, Ky.**—GIRDLER CO. Continuous vacuum bleaching plants.

**Morristown, N. J.**—ALAN PORTER LEE ASSOCIATES, 19 South St. Bleaching installations.

**New York, N. Y.**—DARCO DEPT. ATLAS POWDER CO., 60 E. 42nd St. Activated carbons. Purifying.

**New York 17, N. Y.**—INDUSTRIAL CHEMICAL SALES, 230 Park Ave., div. of West Virginia Pulp & Paper Co. Offices at 35 E. Wacker Drive, Chicago 1, Ill.; Lincoln Liberty Bldg., Philadelphia 7, Pa.; 2775 S. Moreland Blvd., Cleveland 20, Ohio. Activated carbon, refined and crude tall oils.

**New York 17, N. Y.**—INNIS, SPEIDEN & CO., INC., 430 Lexington Ave. Activated and inactivated deodorizing clay.

**New York 16, N. Y.**—JOHNS MANVILLE, 22 E. 40th St. Celite (diatomaceous earth). Filter aids.

**New York 38, N. Y.**—I. A. SALOMON & BRO., 216 Pearl St. Bleaching agents, filter aids.

**Columbus 19, Ohio**—BARNEBY CHENEY CO., Cassady at 8th. Packaged solvent recovery equipment for recovering solvents from vent gases of solvent extraction plants.

**Mt. Holly Springs, Pa.**—EATON-DIKEMAN CO. Manufacturer of filter papers.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div.

**Nacogdoches, Tex.**—BENNETT CLARK CO., INC., P. O. Box 951. Bleaching and filtering clays.

### CATALYSTS

**Los Angeles 17, Calif.**—FILTROL CORP., 727 W. 7th St. Plants at Vernon, Calif.; Jackson, Miss.; Salt Lake City, Utah. Cracking catalysts.

**Seymour, Conn.**—RUFERT CHEMICAL CO. Affiliate of Seymour Mfg. Co. Manufactures Rutenic nickel catalysts.

**Chicago 6, Ill.**—SIECK & DRUCKER, INC., 9 S. Clinton St.

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1137 E. 52nd St.

**New York, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St.

**Cleveland 6, Ohio**—HARSHAW CHEMICAL CO., 1945 E. 97th St.

**Chattanooga, Tenn.**—RANEY CATALYST CO., 718 Hamilton National Bank Bldg.

### COMPLETE PLANTS

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1137 E. 52nd St. Complete equipment and engineering services for processing soybean oils.

**Louisville 1, Ky.**—GIRDLER CO., votator div., 223 E. Broadway. Complete oil processing plants.

**Poughkeepsie, N. Y.**—DE LAVAL SEPARATOR CO. Office also at 427 Randolph St., Chicago 6, Ill.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div. Complete process plants for the fatty oil industry.

**London, W.C.1, England**—BAMAG (1953) LTD., 22 Upper Woburn Place. Complete plant for solvent extracting, hydrogenation and deodorizing soybean oils; machinery for recovering and concentrating leachin.

### DEGUMMING

**Englewood, N. J.**—CENTRICO INC., 75 W. Forest Ave. Importer and distributor of "Westfalia" separators and clarifiers.

**Poughkeepsie, N. Y.**—DE LAVAL SEPARATOR CO. Office also at 427 Randolph St., Chicago 6, Ill.

**Philadelphia 40, Pa.**—SHARPLES CORP., 2300 Westmoreland St.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div.

### DEODORIZATION

**Chicago 6, Ill.**—SIECK & DRUCKER, INC., 9 S. Clinton St. High vacuum deodorizers.

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1137 E. 52nd St. Batch and continuous.

**Rockford, Ill.**—ECLIPSE FUEL ENGINEERING CO., 1136 Buchanan St. Dowtherm heating systems.

**Louisville 1, Ky.**—GIRDLER CO. Votator semi-continuous deodorization plants.

**Hyde Park, Mass.**—S. D. HICKS & SON CO., 1671 Hyde Park Ave. Batch installations.

**Morristown, N. J.**—ALAN PORTER LEE ASSOCIATES, 19 South St. Batch and continuous.

**New York 6, N. Y.**—FOSTER WHEELER CORP., 163 Broadway. Batch and continuous installations. Dowtherm systems.

**Poughkeepsie, N. Y.**—DE LAVAL SEPARATOR CO. Office also at 427 Randolph St., Chicago 6, Ill.

## REFINING EQUIPMENT— (Continued)

Oreland, Pa.—ACME COPPERSMITHING & MACHINE CO. Deodorizers.

Pittsburgh, Pa.—BLAW-KNOX CO., chemical plants div. Batch installations; Dowtherm heating systems.

Warren, Pa.—STRUTHERS WELLS CORP. Batch and continuous deodorizers. Heaters and coolers.

### FRACTIONATION

Chicago, Ill.—ARMOUR CHEMICAL DIVISION, 1355 W. 31st St. Plant also at P. O. Box 190, LaGrange, Ill.

### HYDROGENATION

Atlanta, Ga.—W. F. H. SCHULTZ, INC., 3252 Roswell Rd. N.W. Hydrogen and nitrogen production and storage.

Chicago 6, Ill.—SIECK & DRUCKER, INC., 9 S. Clinton St. Hydrogenators, hydrogen production and storage.

Chicago 15, Ill.—WURSTER & SANGER, INC., 1337 E. 52nd St. Hydrogenators, hydrogen production and storage.

Louisville 1, Ky.—GIRDLER CO. "Hygirtol" hydrogen manufacturing plants.

Morristown, N. J.—ALAN PORTER LEE ASSOCIATES, 19 South St. Hydrogenators.

New York 6, N. Y.—FOSTER WHEELER CORP., 165 Broadway. Hydrogenators.

Poughkeepsie, N. Y.—DE LAVAL SEPARATOR CO. Office also at 427 Randolph St., Chicago 6, Ill.

Emmaus, Pa.—AIR PRODUCTS, INC. Manufactures electrolytic cells for production of hydrogen.

Philadelphia, Pa.—ELECTRIC HEATING EQUIPMENT CO., 3818 Chestnut St. Manufactures complete hydrogen producing plants for oil hardening.

Pittsburgh, Pa.—BLAW-KNOX CO., chemical plants div.

Warren, Pa.—STRUTHERS WELLS CORP. Hydrogenators.

### MARGARINE

Louisville 1, Ky.—GIRDLER CO. Complete margarine plants. Margarine manufacturing apparatus.

Saginaw, Mich.—BAKER PERKINS, INC., chemical machinery div. Mixing equipment, centrifugals.

Pittsburgh, Pa.—BLAW-KNOX CO., chemical plants div.

### MISCELLANEOUS

Fresno, Calif.—VALLEY FOUNDRY & MACHINE WORKS, INC., 2718 East Ave. Stainless steel tanks. Special equipment made to order.

Los Angeles 64, Calif.—PACIFIC TRANSDUCER CORP., 119-21 W. Pico Blvd. Melting point meter for oils, waxes, resins.

Decatur, Ill.—LEADER IRON WORKS, INC., 2156 N. Jasper St. Tanks, kettles, condensers and heat exchangers.

Maywood, Ill.—COLEMAN INSTRUMENTS, INC., 318 Madison St. Manufactures "Coleman Model 6B Spectrophotometer" for evaluation of vegetable oil color.

Morristown, N. J.—ALAN PORTER LEE ASSOCIATES, 19 South St.

New York 17, N. Y.—HEYDEN CHEMICAL CORP., 342 Madison Ave. Manufactures chemicals including "Propyl Gallate," an antioxidant for the inhibition of rancidity in soybean oil and related products.

Poughkeepsie, N. Y.—DE LAVAL SEPARATOR CO. Office also at 427 Randolph St., Chicago 6, Ill. Winterizing; also miscella clarifiers and protein concentrators; centrifugal separators.

Oreland, Pa.—ACME COPPERSMITH & MACHINE CO. Distillation equipment.

### NEUTRALIZATION

Chicago 6, Ill.—SIECK & DRUCKER, INC., 9 S. Clinton St. Kettle refining.

Chicago 15, Ill.—WURSTER & SANGER, INC., 1337 E. 52nd St. Kettle and continuous refining.

Poughkeepsie, N. Y.—DE LAVAL SEPARATOR CO. Office also at 427 Randolph St., Chicago 6, Ill. Continuous refining.

Philadelphia 40, Pa.—SHARPLES CORP., 2300 Westmoreland St. Continuous refining.

Pittsburgh, Pa.—BLAW-KNOX CO., chemical plants div.

### SHORTENING

Chicago 6, Ill.—SIECK & DRUCKER, INC., 9 S. Clinton St. Chilling and plasticizing.

Chicago 15, Ill.—WURSTER & SANGER, INC., 1337 E. 52nd St. Chilling and plasticizing.

Louisville 1, Ky.—GIRDLER CO. Chilling and plasticizing apparatus.

Pittsburgh, Pa.—BLAW-KNOX CO., chemical plants div.

### RESPIRATORS

Chicago 6, Ill.—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

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Cleveland 13, Ohio—HALLEMITTE MFG. CO., 246 W. 25th St. Floor maintenance—repairing, resurfacing, patching, slip-proofing.

Cleveland 12, Ohio—UNITED LABORATORIES, INC., 16801 Euclid Ave. Plant maintenance—flooring, special coatings.

### SCALES

Chicago 50, Ill.—B. F. GUMP CO., 1309 S. Cicero Ave. Automatic weighers.

Chicago 6, Ill.—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Terre Haute, Ind.—WINSLOW GOVERNMENT STANDARD SCALE WORKS, INC., 25th and Haythorne Ave. Motor truck scales, platform type; floor type or warehouse scales; grain hopper scales; batching scales of multiple beam type.

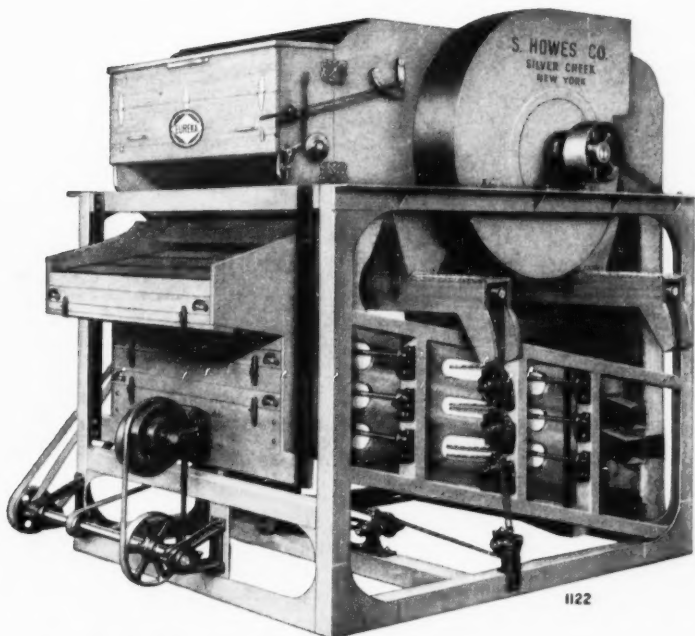
Cedar Rapids, Iowa—J. C. KINTZ CO., 1737 B Ave. N.E.

Minneapolis, Minn.—R. R. HOWELL CO.



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SOYBEAN BLUE BOOK



## SCALES—(Continued)

**Kansas City 6, Mo.**—AMERICAN SCALE & VISE CO., div. of Crompt & Gage, Inc., 819 Waldheim Bldg. Plant at Pleasant Hill. Portable platform and truck scales; vises.

**Webb City, Mo.**—WEBB CORP., 402 Broadway. Manufactures truck and warehouse scales; railroad track scales.

**York, Nebr.**—YORK FOUNDRY & ENGINE WORKS, 912-928 Grant Ave. For testing equipment.

**Clifton, N. J.**—RICHARDSON SCALE CO., 608 Van Houten Ave. Automatic weighing, sacking and proportioning equipment.

**Brooklyn, N. Y.**—DETECTO SCALES, INC., 540 Park Ave. Manufactures retail store and industrial scales.

**Buffalo, N. Y.**—BUFFALO SCALE CO., INC., 46 Letchworth St. Manufactures industrial scales; automatic batching scales.

**New York 14, N. Y.**—AUTOMATIC SCALE CO., INC., 591 Hudson St. Automatic weighing and bagging machinery.

**Silver Creek, N. Y.**—S. HOWES CO., INC. Sacking scales and weighers.

**Columbus 7, Ohio**—BONDED SCALE & MACHINERY CO., 95 Kingston Ave. Motor truck, warehouse, and industrial scales, stationary and portable models.

**Columbus 8, Ohio**—EXACT WEIGHT SCALE CO., 950 W. 5th Ave. Also Dept. AM, 2920 Bloor St. W., Toronto 18, Ontario, Canada. Sacking scales; counter scales for packaging and automatic filling; balances; checkweighing equipment.

**Sidney, Ohio**—SIDNEY GRAIN MACHINERY CO., 424 N. Main St.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

**Rutland, Vt.**—HOWE SCALE CO.

## SEED PROTECTANTS

**Naugatuck, Conn.**—NAUGATUCK CHEMICAL, div. of U. S. Rubber Co. "Phygon Seed Protectant," "Phygon Naugets," "Phygon XL DDT," "Spergon," "Spergon DDT," "Spergon-SL," "Spergon DDT-SL."

**Wilmington, Del.**—E. I. du PONT de NEMOURS & CO., INC., Grasselli chemicals dept. "Arasan" seed disinfectant.

**Westerville, Ohio**—J. W. HANCE MFG. CO. Seed treating equipment. (Fungus diseases.)

## SHEET METAL, SPOUTING

**Denver 17, Colo.**—GATES RUBBER CO., 999 S. Broadway. Rubber lined conveyor spouting.

**Bloomington, Ill.**—EIKENBERRY CO., 606 S. East St. Plant at 204 E. Elm St. Steel fabricator.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 791 Converse Bldg.

**Chicago 4, Ill.**—B. I. WELLER CO., 327 S. La Salle St. Sheet metal work. Elevator legs, spouting.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 13167 Sherman Ave.

**Hammond, Ind.**—SCREW CONVEYOR CORP., 757 Hoffman St. Elevator bucket legs and sheet metal fabrication. Leading spouts and grain grates.

**Cedar Rapids, Iowa**—J. C. KINTZ CO., 1737 B Ave. N.E.

**Wichita 4, Kans.**—VICKERS CONVEYOR & STEEL WORKS, INC., 2927 N. Mosley. Spouting; fabrication of equipment.

**Minneapolis 13, Minn.**—DAY CO., 810 3rd Ave. N.E. Spouting and other sheet steel and alloy products for food processing industries.

**Minneapolis, Minn.**—GERBER SHEET METAL INC., 518 S. 3rd St. Steel spouting, flexible car-loading spouts and sections. Sheet metal fabricator.

**Minneapolis, Minn.**—R. R. HOWELL CO. Steel spouting.

**Kansas City, Mo.**—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Complete sheet metal service.

**Kansas City 8, Mo.**—W. C. WIEDENMANN & SON, INC., 1820-1824 Harrison St. General sheet metal contracting.

**York, Nebr.**—YORK FOUNDRY & ENGINE WORKS, 912-928 Grant Ave. Special sheet metal fabrications including flexible loading spouts.

**Raleigh, N. C.**—AEROGLIDE CORP., 510 Glenwood Ave., P. O. Box 1839. Special spouting.

**Westerville, Ohio**—J. W. HANCE MFG. CO. Flexible grain pipe and swivel grain spouts.

**Baneor, Pa.**—GODSHALK SHEET METAL FABRICATORS, N. Main St. Spouts and miscellaneous fabrication.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Complete sheet metal fabrication facilities.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

**Memphis, Tenn.**—SOUTHLAND ENGINEERING & SUPPLY CO., 208 B S. Cleveland. Plant at 92 W. Carolina. Special steel fabrication.

**Burleson, Tex.**—THOMAS CONVEYOR CO. INC., P. O. Box 6. Steel fabrication.

## SIFTERS

**Chicago 50, Ill.**—B. F. GUMP CO., 1309 S. Cicero Ave.

**Fort Scott, Kans.**—NORVELL, INC., 402 E. 20th.

**Minneapolis 15, Minn.**—SCHUTZ O'NEILL CO., 307 Portland Ave.

**Lockport, N. Y.**—RICHMOND MFG. CO., 29 Gooding St. Affiliate of Novadel-Agenc, Newark, N. J. High-speed gyro sifters.

**Silver Creek, N. Y.**—S. HOWES CO., INC.

**Cincinnati 22, Ohio**—J. H. DAY CO., INC., 1142-A Harrison Ave. "Day" sifter and mixer, mixer agitators, "Day Roball" gyrating sifters.

**Cincinnati 23, Ohio**—ORVILLE SIMPSON CO., 1230 Knowlton St.

## SOLVENTS

**Chicago 1, Ill.**—AMERICAN MINERAL SPIRITS CO., 230 N. Michigan Ave. "Amisco" hexane, heptane and a complete line of extraction solvents.

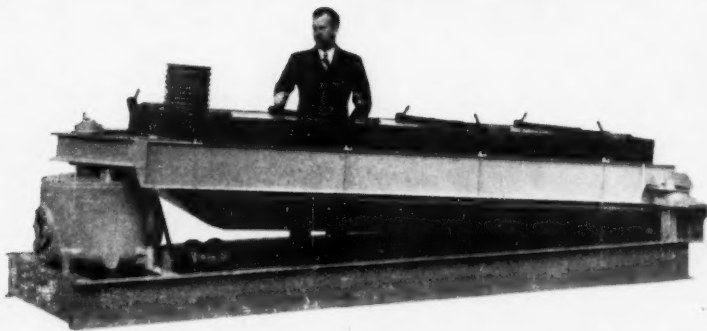
**Louisville, Ky.**—BAUER BROWN SOLVENT CO., 1316 W. Kentucky St. Affiliate of R. J. Brown Co., St. Louis.

**Detroit 26, Mich.**—PENOLA OIL CO., 3780 Penobscot Bldg. "Penola" hexane, "Penola" heptane, "Penola" octane and various extraction solvents.

**Kansas City, Mo.**—SKELLY OIL CO., solvents div., Skelly Bldg. "Skellysolve" for the extraction industry.

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**ROTEX Screener No. 82**

With two screen surfaces, each 40 by 120 inches.

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Our thirty-five years of experience in building ROTEX Screeners, with thousands of machines in daily use, assures you of trouble-free design and rugged construction that will give the most satisfactory continuous operation.

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## SOLVENTS—(Continued)

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**Clark (Rahway), N. J.—COLUMBIA INTERNATIONAL CORP.**, 200 Terminal Rd. Full line of solvents; trichlorethylene.

**New York, N. Y.—ESSO STANDARD OIL CO.**, 15 W. 51st St. Div. offices, Union Ave. at Bellevue, Memphis, Tenn.; 1110 Canal St., P. O. Box 1250, New Orleans 16, La. "Esso" hexane, "Esso" heptane, "Esso" octane and various wide cut extraction solvents.

**Bartlesville, Okla.—PHILLIPS PETROLEUM CO.**, special products div. "Phillips 66" extraction solvents, including hexane and heptane.

## SOYBEAN STORAGE

### ELEVATOR, PROCESSOR UNITS

**Paragould, Ark.—WONDER STATE MFG. CO.** Affiliate of Bertig Co. Supplier of bins, tanks and storage facilities.

**Chicago 2, Ill.—WONDER BUILDING CORP. OF AMERICA**, 30 N. La Salle St. Plant at 2415 W. 19th St. Affiliate of M.P.H. Mfg. Corp., Inc. Manufacturing and sale of prefabricated metal buildings for storage, processing and manufacturing.

**Maroa, Ill.—J. E. REESER CO.** Concrete storage bins.

**Fort Wayne, Ind.—FELTS & JACK CONSTRUCTION CO., INC.**, P. O. Box 926. Affiliate of Jack Construction Co., Inc., Kansas City, Kans. Concrete grain elevators, flour mills and feed plants.

**Des Moines 9, Iowa—CORN STATES HYBRID SERVICE**, 1101 Walnut St.

**Hitchinson, Kans.—CHALMERS & BORTON**, Hoke Bldg. Design and construction of grain storage and handling.

**Wichita 4, Kans.—VICKERS CONVEYOR & STEEL WORKS, INC.**, 1927 N. Mosley. Butler steel tanks; concrete grain storage.

**Minneapolis 13, Minn.—DAY CO.**, 810 1st Ave. N.E. Bulk storage bins.

**Minneapolis, Minn.—HOGENSON CONSTRUCTION CO.**, 622 Flour Esch. Designer and builder of soybean storage and processing plants.

**Kansas City 26, Mo.—BLACK, SIVALLS & BRYSON, INC.**, 7500 E. 12th.

**Kansas City 26, Mo.—BUTLER MFG. CO.**, 7400 E. 17th St.

**Kansas City, Mo.—COLUMBIAN STEEL TANK CO.**, P. O. Box B-4226. Bolted steel grain elevator tanks.

**Kansas City, Mo.—MIDWEST STEEL PRODUCTS CO.**, Railway Esch. Bldg. Bolted storage, elevator-type bins.

**Omaha 2, Nebr.—EATON METAL PRODUCTS CORP.**, 1401 Willis Ave. Also Kansas div. at Hutchinson. Special bean and oil storage tanks for processing plant.

**Omaha 8, Nebr.—TILLOTSON CONSTRUCTION CO.**, 1215 Jones St. Mill and elevator construction.

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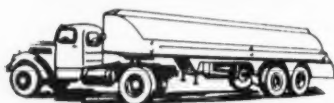
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## SOYBEAN STORAGE— (Continued)

**New York 20, N. Y.**—NICHOLSON CO., INC., 19 Rockefeller Plaza. Bulk storage and handling equipment construction. Reinforced concrete storage bins.

**New York, N. Y.**—R. C. STANHOPE, INC., 60 E. 42nd St. Steel storage tanks.

**Camden, Ohio**—NEFF & FRY CO. Concrete stave bins.

**Mansfield, Ohio**—J. R. MAYNER & CO., 702 Richland Trust Bldg. Storage bins.

**Marietta, Ohio**—MARIETTA CONCRETE CORP., Box 356, Westview. Also Race Rd. and Pulaski Highway, Baltimore, Md. Grain tanks, air cell reinforced concrete stave grain tanks.

**Massillon, Ohio**—MICHIGAN SILO CO., Cherry Rd. N.W. Affiliate of Concrete Silo Co., Bloomfield, Ind. Concrete stave storage bins.

**Sidney, Ohio**—SHELBY MFG. CO., 219 E. Court St. Storage bins.

**Springfield, Ohio**—ROSS EQUIPMENT CO., 1200 Warder St. Affiliate of William Bayley Co. Bolted steel grain storage tanks.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Distributor for commercial "Harvestore" for soybean oil meal storage.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div. Steel bins; hopper bottom bins.

**Memphis, Tenn.**—DABNEY-ALCOTT SUPPLY CO., INC., P. O. Box 2392. Sale of steel grain tanks.

**Memphis 12, Tenn.**—MEMPHIS CONCRETE SILO CO., 2677 Princeton Ave.

**Memphis, Tenn.**—SOUTHLAND ENGINEERING & SUPPLY CO., 208 B S. Cleveland. Plant at 92 W. Carolina. Soybean receiving and shipping plants complete.

**Memphis, Tenn.**—J. E. DIWORTH CO., 730 S. 7rd, P. O. Box 2834. Also plant at Jackson, Miss., and Tuscaloosa, Ala. Storage bins.

### FARM UNITS

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1346 7 Sherman Ave. Storage bins.

**Onawa, Iowa**—GREEN GABLE BUILDERS, INC. Prefabricated wooden grain bins.

**Detroit 29, Mich.**—GREAT LAKES STEEL CORP., Stran-Steel div., Ecorse. "Stran-Steel" all steel, arch-rib quonset buildings for soybean storage and other uses.

**Independence, Mo.**—CURRY STEEL PRODUCTS CO., 417 S. Spring St. Galvanized steel grain bins.

**Kansas City 26, Mo.**—BLACK, SIVALLS & BRYSON, INC., 7500 E. 12th. Bolted steel grain storage tanks and "Perfection" grain storage bins.

**Kansas City 26, Mo.**—BUTLER MFG. CO., 7400 E. 13th St. Bolted steel grain tanks.

**Kansas City, Mo.**—COLUMBIAN STEEL TANK CO., P. O. Box B-426. Steel grain bins for farm storage.

**Kansas City, Mo.**—MIDWEST STEEL PRODUCTS CO., Railway Exch. Bldg. Grain storage bins.

**Omaha 2, Nebr.**—EATON METAL PRODUCTS CORP., 1301 Willis Ave. Also Kansas div., Hutchinson, Kans. Steel grain bins for farm storage.

SOYBEAN BLUE BOOK

## SOYBEAN STORAGE—

(Continued)

**New York, N. Y.**—R. C. STANHOPE, INC., 63 E. 42nd St. Farm storage bins.

**Mansfield, Ohio**—MARTIN STEEL PRODUCTS CORP., Longview Ave. Steel bolted grain tanks, grain bins, silos, haymakers, drying bins, corn cribs, utility and machinery buildings.

**Middleton, Ohio**—CLAYTON & LAMBERT MFG. CO., 1025 Linnick St. Also plant at Louisville, Ky. Farm structure grain and bean storage.

**Springfield, Ohio**—ROSS EQUIPMENT CO., 1200 Warder St. Affiliate of William Bayley Co. Bolted steel grain storage tanks, hopper bottoms, metal fabricators.

**Oklahoma City, Okla.**—BOARDMAN CO., 1401 S.W. 11th St. Farm storage bins.

**Rosemont, Pa.**—LESTAN CORP., 17 Black Friar Rd. Steel tanks and bins.

**Sioux Falls, S. Dak.**—SIOUX STEEL CO. "Sioux" steel grain bins.

**Memphis, Tenn.**—HAYS SUPPLY CO., 269-287 S. Front St. Farm storage bins.

**Memphis 12, Tenn.**—MEMPHIS CONCRETE SILO CO., 2677 Princeton Ave. Heavy duty grain bins.

**Memphis, Tenn.**—PIGGEON THOMAS IRON CO., E. H. Cump Blvd. and S. Main St. Steel fabricating, bins, tanks, structures.

**Milwaukee, Wis.**—A. O. SMITH CORP., 3533 N. 27th St. "Harvestore."

## SPRAYING EQUIPMENT

**Emeryville 8, Calif.**—BESLER CORP., 4053 Harlan St. Also Davenport Besler Corp., Davenport, Iowa. "Bes-Kil" aerosol concentrate sprayer.

**Aurora, Ill.**—FINCO, INC., 65 Fox St. "Finco" hi-clearance sprayer.

**Bellwood, Ill.**—SPRAYING SYSTEMS CO., 3201 Randolph St. "Teejet" nozzles and accessories for spraying of herbicides, insecticides, defoliants and liquid fertilizers.

**Chicago, Ill.**—ROOT LOWELL CORP., 445 N. Lake Shore Dr. Plant at Lowell, Mich. Affiliate of Root Mfg. Co. Sprayers and dusters.

**Moline, Ill.**—JOHN DEERE. Dusting machines.

**Elkhart, Ind.**—DOBBINS MFG. CO., 700 W. Beardsley Ave. Hand and power agricultural sprayers and dusters.

**Cedar Rapids, Iowa**—CENTURY ENGINEERING CORP., 401 3rd St. Farm sprayers.

**Fort Dodge, Iowa**—DODGEN & CO., east on Highway 20. "Hagic Hi Clearance" self-propelled sprayers for weed and insect control and defoliation.

**Neodesha, Kans.**—AIROSPRAYER CO., P. O. Box 269. Manufacturer of power and hand "Airosprayer."

**Detroit 11, Mich.**—CHAMPION SPRAYER CO., 6509 Hemtze Ave. "Champion" sprayers and dusters for applying insecticides and fungicides for weed and insect control and defoliants. Parts and accessories.

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## J. E. REESER COMPANY

**Maroa, Illinois**



## SPRAYING EQUIPMENT—

(Continued)

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**Dakota City, Nebr.**—**BROYHILL CO.** Field sprayers for applying herbicides, insecticides, fungicides and liquid fertilizer. Planter, cultivator, tractor, trailer and jeep attached types—pre emergence or post emergence.

**Gowanda, N. Y.**—**BUFFALO TURBINE AGRICULTURAL EQUIPMENT CO., INC.** Mist sprayer-duster. Concentrate air blast sprayer.

**Middleport, N. Y.**—**NIAGARA CHEMICAL DIV., Food Machinery & Chemical Corp.** Also plants at Harlingen, Tex.; Wyoming, Ill.; Richmond, Calif.; Jacksonville, Fla. Affiliate of Food & Machinery Corp., San Jose, Calif. Crop dusting machinery.

**Ashland, Ohio**—**F. E. MYERS & BRO. CO.** Complete line of engine-driven and power take-off trailer-type power sprayers. Front and rear mounted tractor sprayers. Row crop concentrate sprayers and attachments.

**Cleveland 13, Ohio**—**ENGINE PARTS MFG. CO.** 1760 W. 9th St. Boom and hand-type "Yel-low Devil" sprayers; "Empareo" pumps.

**York, Pa.**—**OLIVER CORP.** 142 N. Duke St. "Iron Age" row crop and weed sprayers.

**Beloit, Wis.**—**HANSON CHEMICAL EQUIPMENT CO.** 301 Charles St. Tractor mounted chemical sprayers, PTO pump kits, engine-driven spraying units, carriers and transports.

## TARPAULINS

**Atlanta, Ga.**—**FULTON BAG & COTTON MILLS.** Offices in St. Louis, Dallas, Minneapolis, Denver, New Orleans, Kansas City, Kansas, New York, Los Angeles, Savannah.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.** 13167 Sherman Ave.

**Indianapolis, Ind.**—**MAX KATZ BAG CO.** 316 S. New Jersey St. Waterproof tarpaulins.

**Milwaukee 4, Wis.**—**ASSOCIATED BAG CO.** 605 S. 1st St. Canvas covers, tarpaulins, canvas goods.

## THERMOMETERS

**Atlanta 1, Ga.**—**A. A. WOOD & SONS CO.** 46 Magnolia St. N.W. Manufactures thermometers used in checking heat of stored or piled beans and meal.

**Des Moines 9, Iowa**—**HOT SPOT DETECTOR, INC.** 426 Keo Way. Manufactures and installs "Hot Spot" detector systems for measuring temperatures in grain storage bins, including portable and electronic units, automatic scanning and automatic recording measuring systems.

**Rochester 1, N. Y.**—**TAYLOR INSTRUMENT COMPANIES**, 95 Ames St. Manufactures instruments for indicating temperature.

**Memphis, Tenn.**—**LEWIS SUPPLY CO.** 477 S. Main St.

# Worth Reading ! !

The advertisements in this issue of THE SOYBEAN BLUE BOOK deserve your careful study. These advertisers represent important sources of new materials, new methods, new products, new services. They are using this issue to acquaint you with the usefulness of their varied products and services. They can be of much help to you.

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## TRANSPORTATION EQUIPMENT

Chicago 90, Ill. — GENERAL AMERICAN TRANSPORTATION CORP., 135 S. La Salle St. "Airslide" cars designed for transportation of dry, granular or powdered commodities.

## TRUCK BODIES

Cedar Rapids, Iowa — HIGHWAY EQUIPMENT CO., INC., 616 D Ave. N.W. "New Leader Bulk-master" bulk feed delivery bodies, transports, and commercial fertilizer and lime spreaders.

Cincinnati 9, Ohio — TRAILMOBILE, INC., 31st and Robinson. Affiliate of Pullman, Inc. Other plants at Springfield, Mo.; Berkeley, Calif. Motor truck trailers for hauling grain, oil and all finished products.

## TRUCK LIFTS

Chicago 6, Ill. — SEEDBURO EQUIPMENT CO., 799 Converse Bldg.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1367 Sherman Ave.

Peoria, Ill. — PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St.

Hammond, Ind. — SCREW CONVEYOR CORP., 757 Hoffman St. "Kewanee" truck dumpers and overhead lifts.

Cedar Rapids, Iowa — J. C. KINTZ CO., 1737 R Ave. N.E.

Enterprise, Kans. — J. B. EHRSAM & SONS MFG. CO. Truck hoists; semi-trailer platform dumps.

Minneapolis 14, Minn. — ARO-FLEX EQUIPMENT CO., INC., 3030 E. Hennepin Ave. Manufactures a complete line of pneumatically and hydraulically powered truck lifts and grain dumps for country and terminal elevators.

Minneapolis, Minn. — R. R. HOWELL CO. Truck dumps.

Kansas City, Mo. — GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave.

Omaha 6, Nebr. — BENDER HOIST MFG. CO., 912 S. 8th St. Plant at 4008 N. 24th St. "Bender" electric hoists for elevators and "Bender" electric overhead lifts for dumping trucks.

Sidney, Ohio — SIDNEY GRAY MACHINERY CO., 423 N. Main St. Truck dumps.

Springfield, Ohio — DUPLEX MILL & MFG. CO. Truck hoists.

Memphis, Tenn. — LEWIS SUPPLY CO., 477 S. Main St.

Fort Worth, Tex. — INDUSTRIAL MACHINERY CO., INC., 2400 S. Main.

## TRUCKS, WHEELS, CASTERS

Chicago 6, Ill. — SEEDBURO EQUIPMENT CO., 799 Converse Bldg.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1367 Sherman Ave. Bag trucks.

Cedar Rapids, Iowa — J. C. KINTZ CO., 1737 R Ave. N.E.

Keokuk, Iowa — THOMAS TRUCK & CASTER CO. Bag, barrel and 4-wheel platform trucks; wheels and casters.

Grand Rapids 2, Mich. — RAPIDS STANDARD INC., Rapistan Bldg. Plants at 130 Trowbridge N.W.; and Plymouth Rd. N.E. "Wheel Ezy" hand trucks; steel forged and cold-forged casters.

Faribault, Minn. — NUTTING TRUCK & CASTER CO., 1125 W. Division St. Platform, bag, box, hopper and dolly trucks; jack and skid systems; wheels; casters.

Philadelphia 29, Pa. — AMERICAN PULLEY CO., 420 Wissahickon Ave. Hand trucks, industrial wheels and barrel cradles.

Memphis, Tenn. — LEWIS SUPPLY CO., 477 S. Main St.

Rutland, Vt. — HOWE SCALE CO. Hand trucks.

## UNLOADERS

Little Rock, Ark. — HUBERT PHELPS MACHINERY CO., 1700 E. 9th St. Pneumatic unloaders for trucks or boxcars.

Chicago 1, Ill. — LINK BELT CO. Also at Indianapolis, Philadelphia and Colmar, Pa.; Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Car unloaders for handling soybeans, grain, etc.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1367 Sherman Ave.

Memphis, Tenn. — LEWIS SUPPLY CO., 477 S. Main St.

Fort Worth, Tex. — BENSON POWER SHOVEL CO., 1329 W. Vickery. Plant at 4291 Azle Ave. Manufactures power grain shovels for unloading bulk cars, and aluminum handles for any type power shovel.

## VALVES

Fresno, Calif. — VALLEY FOUNDRY & MACHINE WORKS, INC., 2718 East Ave. Stainless steel valves.

Memphis, Tenn. — LEWIS SUPPLY CO., 477 S. Main St.

## WATERPROOFING

Chicago 2, Ill. — B. J. MANY CO., INC., 30 N. La Salle St. Protection against weather by the "In-Fil-Tro" method.

Huntington, Ind. — HUNTINGTON LABORATORIES, INC. "Texture-Sau."

Des Moines 9, Iowa — TUFCRETE CO., INC., 519 Teachout Bldg. "Tuftrite" for below grade; from inside of building; "Tufseal" above grade; from outside of building.

Hutchinson, Kans. — SUPPLY SERVICE, INC., 528 S. Main St. "Bunkote," developed especially for grain elevators.

North Kansas City 16, Mo. — NATIONAL PAINTING CORP., 2012 Burlington. Applicators of Glastic 100% soybean oil waterproofing and weatherproofing materials. Contractors and engineers for repairs, concrete restoration, building cleaning, tuck pointing.

St. Louis 1, Mo. — WESTERN WATERPROOFING CO., Syndicate Trust Bldg. "Resto-Crete" system of weatherproofing, waterproofing, concrete restoration, tuck pointing, building cleaning. Engineers and contractors.

Cleveland 13, Ohio — HALLEMITTE MFG. CO., 2416 W. 25th St. "Halcoid" asphalt base cold process roof coating for various types of roofs. Invisible waterproofing for sealing exterior masonry walls against moisture penetration.

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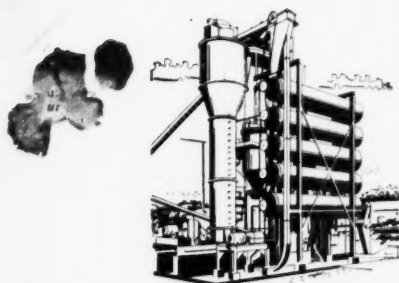
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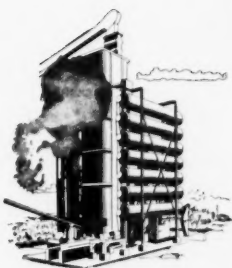
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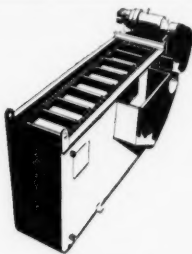




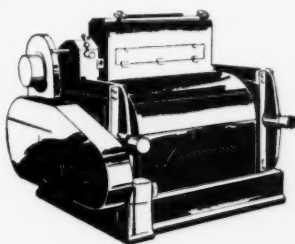
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